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FINAL DRAFT
ENVIRONMENTAL PRIORITY INITIATIVE
PRELIMINARY ASSESSMENT REPORT
O.I. KIMBLE STS, INC.
VINELAND, NEW JERSEY

VOLUME 1 OF 2

PREPARED UNDER

WORK ASSIGNMENT NO. 019-2JZZ CONTRACT NO. 68-W9-0051

SEPTEMBER 18, 1992

SUBMITTED BY:

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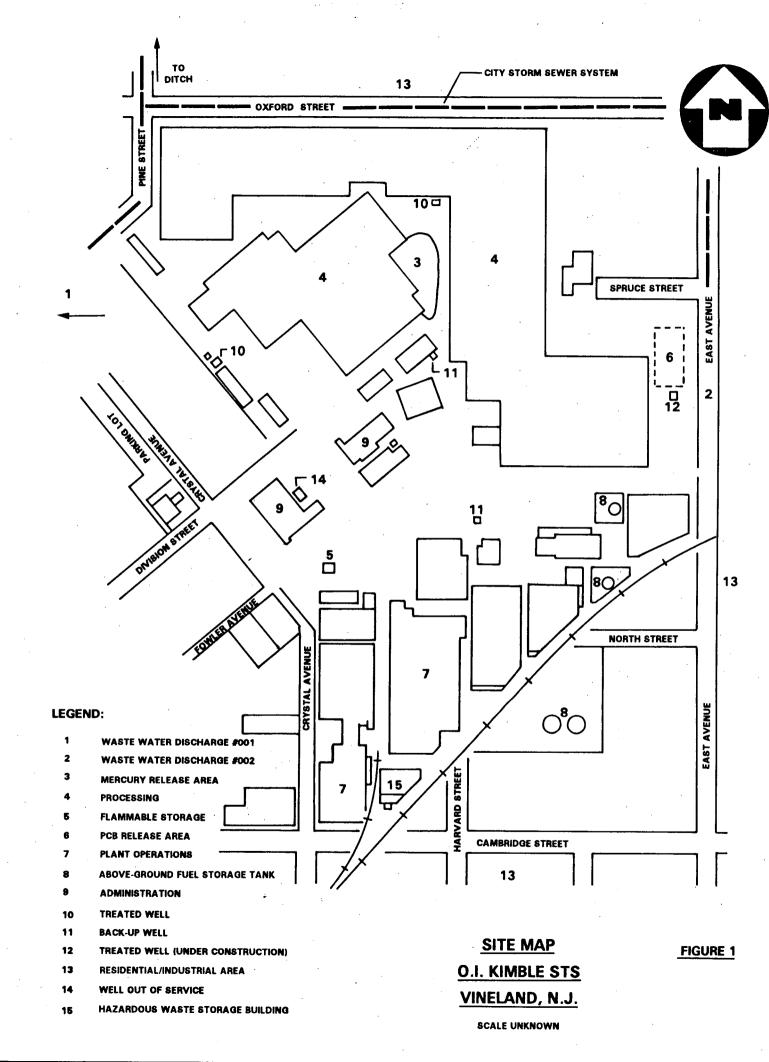
SITE SUMMARY

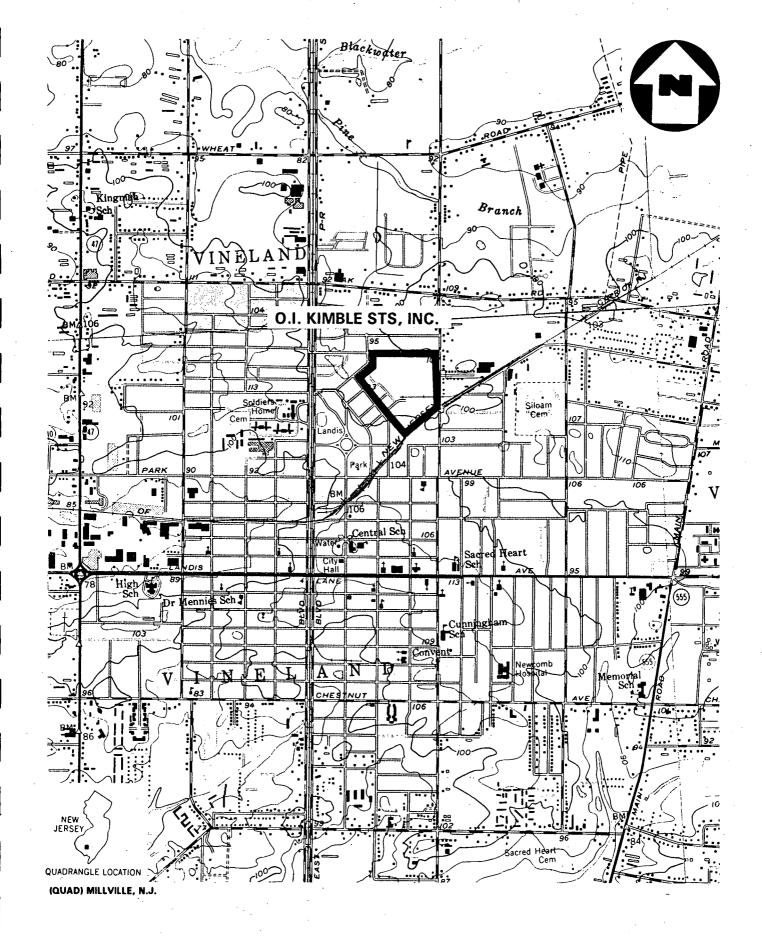
O.I. Kimble STS, Inc., formerly known as Owens-Illinois, Inc., is located in an urban area of Vineland, Cumberland County, New Jersey (Ref. Nos. 3, 6, 19). The property includes an active pressed and blown glass manufacturing facility situated on approximately 60 acres (Ref. No. 1; 38, p. 2). Figures 1 and 2 provide a Site Map and Site Location Map, respectively. From December 1974 to the present O.I. Kimble STS, Inc. manufactured consumer and technical glassware at this site (Ref. No. 1). Lead and chromium has been used for decorative purposes on the glass produced at this plant, yet the furnace used for lead imprinting has not been used since 1981 (Ref. No. 34).

In November 1980 O.I. Kimble STS, Inc., then known as Owens-Illinois Kimble Division, Inc., filed a RCRA Part A application. In March 1987 the facility notified the U.S. EPA of its name change but indicated that the operations and management would continue as in the past (Ref. No. 6). In November 1987, the facility requested to be delisted from a treatment, storage or disposal facility (TSDF) to generator only status (Ref. No. 8). The facility's delisting request was approved on December 15, 1989 (Ref. No. 9).

The facility stores hazardous waste in drums inside a hazardous waste storage building (Ref. No. 44, p.6). The quantity of wastes present on site for calendar year 1991 was reported as 940 pounds of spent hydrofluoric acid, 10,700 pounds of chromium-containing, ceramic waste, and 13,728 pounds of PCB-containing oil (Ref. No. 47, p.2). Additional wastes present on site include CERCLA exempt petroleum products. Other wastes previously reported on site include the following: spent halogenated solvents such as tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, and carbon tetrachloride; non-halogenated solvents such as xylene, acetone, ethyl acetate, ethylbenzene, toluene, methanol, and arsenic (III) oxide; and lead, chromium, mercury contaminated soil, and PCB-contaminated oil. (Ref. Nos. 1; 18, p. 2; 34, p. 2-7; 36, p. 4; 37, p. 3; 47).

A release of mercury to soil occurred on site in 1989 when a mercury vent malfunctioned. During the week of May 14, 1990, approximately 720 cubic yards of mercury contaminated soils were removed from the release area. Pre-excavation samples indicated mercury concentrations between 1.7 to 700 parts per million (ppm) at 0-6 inches below the surface (Ref. No. 47, p. 9). Two areas were excavated. A shallow excavation continued to a depth of 24-30 inches below the surface, and a deep excavation continued to a depth of 144-150 inches below the surface (Ref. No. 47, p. 5). Post-excavation samples indicated residual levels of mercury below the state action level (Ref. No. 47, p. 7). The excavation area was lined with 6 mil polyethylene sheeting, backfilled to grade with clean bank run sand, covered with 2 inches of gravel, and resurfaced with 2 inches of asphalt. The contaminated soils were deemed nonhazardous by NJDEP and approved for disposal at a non-RCRA





O.I. KIMBLE STS, INC.
VINELAND, N.J.

SCALE: 1" = 2000"

.1

FIGURE 2

SITE SUMMARY (CONT'D)

permitted landfill named American Landfill Inc. in Waynesburg, Ohio (Ref. No. 47, p. 6). The NJDEP supervised the excavation under the plant's Environmental Conservation and Recovery Act (ECRA) clean up in 1990 (Ref. No. 7; 29; 47 p. 6).

An area of stained soil at the north end of the site, contaminated by polychlorinated biphenyl (PCB) ladened oil from a transformer, was discovered when the transformer leaked. During the week of August 21, 1989, 6 cubic yards of contaminated soil was excavated to a depth of 42 inches below the surface (Ref. No. 49). Before being disposed of, the soil was sampled and found to contain less than 1.0 milligram per kilogram (mg/kg) of PCBs. The soil was disposed of as nonhazardous at E.J. Brennam, Inc., in Sinking Springs, Pennsylvania. At this facility the soil was incinerated and mixed with asphalt (Ref. No. 50). Four post-excavation samples were found to contain less than 100 parts per million (ppm) of PCBs, the NJDEP minimum concentration level for PCB clean-up. After the excavation, the area was lined and filled with clean fill, and resurfaced with asphalt (Ref. No. 49). The facility is in the process of updating their equipment (Ref. No. 47, p. 97). Nine PCB-containing transformers have been removed from the site during 1991 and 1992. Fourteen PCB-containing transformers are still present on site; however, these transformers are stored inside buildings which are reported to provide complete containment (Ref. Nos. 44, p. 7; 47, p. 98)

The facility has had petroleum spills, which will not be evaluated in this report because releases of petroleum products are excluded CERCLA remediation (Ref. Nos. 28, 39). In 1991 the facility was cited for administrative violations including: storing waste on site longer than 90 days, incorrect drum labelling, and not informing local authorities about safety procedures. There were no citations for improper waste handling or spills given at this time (Ref.No. 38, p. 21).

The facility has two permitted outfalls to the Vineland City Storm Water Sewer System which are used for wastewater disposal under NJPDES permit number NJ0004499 (Ref. Nos. 1, 12, 33). The Vineland City Storm Water Sewer System discharges to a ditch which leads to the Pine Branch of the Maurice River (Ref. No. 33). It is unlikely that any hazardous substances were disposed of in or near this ditch during the facility's operating history, since all hazardous substances are reported to be stored in buildings on diked concrete floors (Ref. No. 44, p.11). Surface waters downstream of the facility contain sensitive environments, that support both federal and state endangered species, and fisheries (Ref. Nos. 15, 16, 20, 45, 46).

The facility provides its own water supply for industrial and drinking purposes using six wells in a mixed system. New Jersey Department of Environmental Protection and Energy (NJDEPE) analysis of the six wells on site has detected volatile organic compounds (VOC), tetrachloroethylene and

SITE SUMMARY (CONT'D)

trichloroethylene, in four of the wells (Ref. Nos. 44, p.13; 47, p.51). This contamination is documented to have originated off site, and migrated to the site. Groundwater in the area flows southwest to northeast and public supply wells to the southwest have documented to have been contaminated by VOCs previous to the discovery of the groundwater contamination at the site on site (Ref. Nos. 44, p.10; 48). Two of the known contaminated wells have been treated with air strippers and the other contaminated wells have been closed. A third air stripper is currently being installed on another well in anticipation of future contamination when the plume reaches this well (Ref. No. 44, p.10). The facility continues to sample and analyze groundwater to determine the extent of groundwater contamination at their wells (Ref. No. 47 pp.57-62).

There is a suspected release to groundwater from the site. Mercury contaminated soil remained in place for approximately one year before 720 cubic yards of contaminated soil were remediated and removed from the site. PCB contaminated soil remained in place for an unknown period of time before six cubic yards of contaminated soil were remediated and removed from the site. During the time between these releases and remediation, contaminants could have percolated to groundwater. There are approximately 48,745 people served by groundwater within 4 miles of the site (Ref. No. 41). All other waste sources on site are contained inside enclosed buildings.

SITE ASSESSMENT REPORT: SITE INSPECTION

PART I: SITE INFORMATION

1.	Site Name/Alias O.I. Kimble STS, Inc./Owens-Illinois Kimble Division/Kimble Glass			on/Kimble Glass
	Street 537 Crys	tal Avenue		
	City Vineland		State New Jersey	Zip <u>08360</u>
2.	County Cumberl	and	County Code 11	Cong.Dist. <u>02</u>
3.	EPA ID No. NJD	002342087	<u> </u>	
4.	Block No. 330		Lot No. 1	· · · · · · · · · · · · · · · · · · ·
5.	Latitude 39° 29'	45" N	Longitude 75° 01′ ()9" W
		lville, NJ		
6.	Approximate size	e of site <u>60 acres</u>		
7.	Owner Owens-II	linois Incorporated	Tel. No. <u>(419) 247-</u>	8976
	Street P.O. Box	1035		
8.	Operator O.I. Kir	mble STS	Tel. No. (609) 692-	3600
	Street 537 Crys	tal Avenue		
	City Vineland		State New Jersey	Zip <u>08360</u>
9.	Type of Ownersl	nip		
	X Private	_ Federal	_ State	
	_ County	_ Municipal	_ Unknown _ Oth	ner
10.	Owner/Operator	Notification on File		
	X RCRA 3001 D	Pate November 12, 1980	_ CERCLA 103c	Date
	_ None	_ Unknown		

11. Permit Information

Permit	Permit No.	Date Issued	Expiration Date	Comments
NJPDES	NJ0004499	N/A	N/A	Waste Water Discharge
Air Pollution	CT-002654	N/A	N/A	Dust Collector
Air Pollution	CT-002655	N/A	N/A	Bin Vent Collector
Air Pollution	CT-013720	N/A	N/A	Cullet Crusher Dust Collector
Air Pollution	CT-039279	N/A	N/A	(11) Raw Material and
•				(1) Mixer Dust Collector
Air Pollution	CT-049246	N/A	N/A	Cullet Dry Dust Collector
Air Pollution	CT-068986	N/A	N/A	"R" Tank Cullet Conveyor
	·	•		<u>Dust Collector</u>
Air Pollution	CT-06011	N/A	N/A	J-M EP's
Air Pollution	CT-06012	N/A	N/A	"G" EP
Air Pollution	CT-06013	N/A	N/A	"Y" Furnace
Air Pollution	CT-106866	N/A	N/A	"R" EP

4	2	Site Status
- 1	2.	SITE STATUS

X Active _ Inactive _ Unknown

- 13. Years of Operation 1910 to Present
- 14. Identify the types of waste sources (e.g., landfill, surface impoundment, piles, stained soil, above- or below-ground tanks or containers, land treatment, etc.) on site. Initiate as many waste unit numbers as needed to identify all waste sources on site.
 - (a) Waste Sources

Waste Unit No.	Waste Source Type	Facility Name for Unit	
1.	Drums	Hazardous Waste Storage Building	
2.	Contaminated Soil	Contaminated Soil	

(b) Other Areas of Concern

Identify any miscellaneous spills, dumping, etc. on site; describe the materials and identify their locations on site.

The facility has four above ground storage tanks that contain 14,000,000 gallons of fuel oil. Since fuel oil is CERCLA/SARA exempt these tanks will not be considered in this report.

Fourteen PCB-containing transformers present on site are stored inside enclosed structures which function as barriers between the external environment and this waste source. Thirteen of the transformers contain 110 gallons of PCB-containing oil each. One transformer contains 285 gallons of PCB-containing oil. A total of 1715 gallons of PCB-containing oil is present on site.

Ref. Nos. 1; 2; 3; 4; 5; 18; 33; 34; 35; 36; 37; 38; 44, pp. 10-13; 47, pp. 4-50, 98; 49; 51

15. Information available from

Contact Sandy Foose	Agency U.S. EPA Tel. No. (908) 906-6808
Preparer Corry T. Platt	Date September 11, 1992

PART II: WASTE SOURCE INFORMATION

For each of the waste units identified in Part I, complete the following items.

Waste Unit _____ 1 - Hazardous Waste Storage Building

Source Type

_	Landfill	_	Land Treatment
_	Surface Impoundment	_	Chemical Waste Pile
<u>X</u>	Drums	_	Scrap Metal or Junk Pile
_	Tanks/Containers	_	Tailings Pile
_	Contaminated Soil	_	Trash Pile
_	Pile	_	Other

Description:

The on-site reconnaissance indicated that the Hazardous Waste Storage Building contains drums containing various hazardous wastes. These drums are contained on diked, concrete pads surrounded by a fence, inside buildings.

Hazardous Waste Quantity

During the calendar year 1991, 940 pounds of Hydrofloric Acid, 10,700 pounds of chromium-containing, ceramic decorating wastes, and 13,728 pounds of PCB-containing oil were reported to be manifested off site. The on-site reconnaisance on August 12, 1992 reported 48 drums of chromium-containing ceramic waste, 17 drums of refractory pieces, and 1 drum of PCB-containing oil.

Hazardous Substances/Physical State

The on-site reconnaisance reported 48 drums of ceramic waste, 17 drums of refractory pieces, and 1 drum of PCB-containing oil. The ceramic waste and refractory pieces both contained chromium. Other records report the following wastes to be present on site: F001 (spent halogenated solvents used in degreasing: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons), F003 (spent nonhalogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol), F005 (spent nonhalogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine), and P012 (Arsenic (III) oxide). A NJDEP inspection report lists the additional wastes: D008 (lead); D007 (chromium); and, C313 (mercury contaminated soil in drums).

SWMU - Specific Conclusion

No release of hazardous substances is known, alleged, or suspected to have occurred from this unit.

Ref. Nos. 1; 18, p. 2; 34, pp. 2-7; 36, p. 4; 37, p. 3; 44, pp. 6,11; 47, pp. 75-96

PART II: WASTE SOURCE INFORMATION

For each of the waste units identified in Part I, complete the following items.				
Waste Unit 2		-	Contaminated Soil	
Source	Туре			
_	Landfill		· -	Land Treatment
_	Surface Impoundment		_	Chemical Waste Pile
_	Drums		_	Scrap Metal or Junk Pile
_	Tanks/Containers	-	_	Tailings Pile
<u>X</u>	Contaminated Soil		_	Trash Pile

Description:

Pile

Contaminated soil was found in two areas on site.

The first area was contaminated with mercury, when a vent malfunctioned and caused mercury to release to the soil near "Building 113". This contaminated soil was left in place for approximately one year before any remediation took place. Two excavations occurred in this area. A shallow excavation continued to a depth of 24-30 inches and a deep excavation continued to a depth of 144-150 inches below the surface. The area was lined with 6 mil polyethylene sheeting, backfilled with clean sand covered with 2 inches of gravel, and resurfaced with 2 inches of asphalt. The contaminated soils were deemed nonhazardous and approved for disposal at a non-RCRA permitted facility by NJDEP after analysis by AnalytiChem, Inc., and were deemed nonhazardous. Post-excavation samples indicated residual levels of mercury contaminated soil, below the state action level, remaining on site.

Other

The second area was contaminated with PCB-containing oil, when a transformer leaked. It is unknown how long this contaminated soil was left in place. The contaminated soil was excavated to a depth of 42 inches from the surface. The excavated soil was analyzed by AnalytiChem Inc. and found to be nonhazardous and approved for disposal at a non-RCRA permitted facility. Post-excavation samples indicated that PCBs were not detected at the state action level of 100 ppm. After the remediation the area was lined with polyethylene sheeting, filled with clean fill, and resurfaced with asphalt.

Hazardous Waste Quantity

Approximately 720 cubic yards of mercury contaminated soils were removed from the site during the week of May 14, 1990.

During the week of August 21, 1989, six cubic yards of PCB-containing-oil contaminated soil was excavated and removed from the site.

Hazardous Substances/Physical State

Hazardous substances include mercury contaminated and PCB-contaminated soils in a solid state.

SWMU - Specific Conclusion

A release to groundwater is suspected, since the contaminated soils remained in place for an extended period of time, during which contaminants could have percolated to groundwater.

Ref. Nos. 44, p. 7, 10, 11; 47, pp. 5, 6; 49

PART III. SAMPLING RESULTS

EXISTING ANALYTICAL DATA

The soil, where the mercury spill occurred, was analyzed to determine the extent of the mercury contamination. The sampling occurred in May and August 1989, and January and March 1990. Camp Dresser and McKee, Inc. (CDM) collected 24 soil borings to depths of 144-150 inches. These samples were analyzed by AnalytiChem, Inc., under NJDEPE Tier 2 protocol for total mercury, and Extraction Procedure Toxicity for Metals. Pre-excavation mercury concentrations ranged from 1.7 ppm to 700 ppm at the surface, and 1.2 ppm to 9.7 ppm at the 144-150 inch depth (Ref. No. 47, p. 9). Approximately 10 cubic yards of soil, which contained the majority of the soil with elevated levels of mercury, was removed from the area between the storm drain and the door step to "Building 119". The contaminated soil was excavated in two areas. One area was a shallow excavation of 24-30 inches below the surface and the other area was a deep excavation of 144-150 inches below the surface. During the week of May 14, 1990 approximately 720 cubic yards of mercury-contaminated soil was removed. This soil was deemed non-hazardous and approved by NJDEP to be sent to American Landfill, Inc. in Waynesburg, Ohio, a non-RCRA permitted landfill (Ref. No. 47, pp. 5,6). Sixteen post-excavation samples were collected by CDM and analyzed by AnalytiChem, Inc. Analyses indicated mercury concentrations ranging from 0.041 ppm to 0.210 ppm at 24-30 inches below the surface, 0.025 ppm to 0.630 ppm between 54-78 inches below the surface, and 0.035 ppm to 0.210 ppm at 114-150 inches below the surface (Ref. No. 47, p. 26). After the excavation the area was lined with 6 mil polyethylene sheeting, backfilled, covered with two inches of gravel, and resurfaced with two inches of asphalt (Ref. Nos. 47, pp. 5, 6; 51).

Soil in the area of the transformer leak, in the northeast corner of the property, was collected by CDM and analyzed by AnalytiChem Inc. under NJDEP Tier 2 protocol and found to contain polychlorinated biphenyls (PCBs). During the week of August 21, 1989, six cubic yards of contaminated soil was excavated to a depth of 42 inches below the surface. The excavated soil was analyzed and contained less than 1 mg/kg of PCB. It was deemed non-hazardous by NJDEP, and approved for disposal at E. J. Brennam, Inc., in Sinking Springs, Pennsylvania, a non-RCRA permitted facility. This soil was incinerated and mixed with asphalt. Four post-excavation samples were analyzed by AnalytiChem, Inc., and found to contain less than 100 ppm of PCBs, the state action level. After the excavation the area was lined with polyethylene sheeting, filled with clean fill, and resurfaced with asphalt (Ref. Nos. 49; 51).

Tetrachloroethylene and trichloroethylene have been detected in four wells on site. Tetrachloroethylene levels ranged from less than 0.044 ppb to 1.87 parts per billion (ppb) in the wells. Trichloroethylene levels ranged from less than 0.044 ppb to 28.00 ppb at the four wells on site. This data was analyzed under direction of the New Jersey Department of Environmental Protection, Water Technical Programs, Bureau of Safe Drinking Water, and was collected between January 16, 1991 through June 18, 1991. It is unknown who collected and analyzed the samples (Ref. No. 47, pp. 53, 54). The treated wells were sampled through tap water samples and analyzed on August 5, 1992 by Testwell Craig Testing Laboratory, Inc. Both tetrachloroethylene and trichloroethylene were detected. Tetrachloroethylene was detected between 0.260 ppb through 0.330 ppb, and trichloroethylene was recorded between 0.170 ppb through 0.220 ppb. (Ref. No. 47, pp. 57-62)

Lab certification and QA/QC procedures are unknown for the above data analyses. The validity of the above data to that of Contract Laboratory Program (CLP) Protocol data is unknown.

PART IV. HAZARD ASSESSMENT

GROUNDWATER ROUTE

 Describe the likelihood of a release of contaminant(s) to the groundwater as follows: observed release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release, define the supporting analytical evidence.

There is a suspected release of contaminants to groundwater from the contaminated soil on site. The mercury-contaminated soil was in place for approximately 1 year, and the PCB-contaminated soil was in place for an unknown amount of time. In both cases the contaminants could have migrated to groundwater by means of rainwater transport. After the soil was excavated, residual levels of mercury were found in soil samples. The PCB-contaminated soil was documented to have less than 100 ppm of PCBs, the state action level.

Ref. No. 47, p. 5; 49

2. Describe the aquifer of concern; include information such as depth, thickness, geologic composition, areas of karst terrain, permeability, overlying strata, confining layers, interconnections, discontinuities, depth to water table, groundwater flow direction.

The site is located within the Outer Coastal Plain Providence. The aquifer of concern is the Kirkwood-Cohansey. The Kirkwood-Cohansey aquifer system is predominantly a water-table aquifer, and is composed of the Kirkwood Formation and the Cohansey Sand. Perched water tables and semiconfined conditions can exist in the Kirkwood-Cohansey aquifer system. Well logs for Vineland indicate that the upper part of the Kirkwood-Cohansey is generally composed of coarse-grained sand to gravel, the center portion is a mix of clay and sand, and the lower portion is primarily clay. The entire formation is approximately 203 feet thick. The hydraulic conductivity of the Cohansey-Kirkwood ranges from 10⁻⁴ to 10⁻⁶ cm/sec. The depth to the water table varies seasonally with a range of 8 to 25 feet on site. Groundwater flow is southwest to northeast.

Ref. Nos. 11; 13; 27; 44, p. 10

3. What is the depth from the lowest point of waste disposal/storage to the highest seasonal level of the saturated zone of the aquifer of concern?

Waste is stored indoors at ground level. The Kirkwood-Cohansey aquifer system is predominantly a water table aquifer that has a depth range of 8 to 25 feet according to well logs. Therefore, the depth from the lowest point of waste storage to the highest seasonal level of the saturated zone is approximately 8 feet.

Ref. Nos. 11, p.3; 14; 27

4. Identify and determine the distance to and depth of the nearest well that is currently used for drinking purposes?

The nearest well currently used for drinking water is a private well located on site. The wells on site draw water between 105 to 123 feet below the surface.

Ref. Nos. 11, 14, 27, 47

5. If a release to groundwater is observed or suspected, determine the number of people that obtain drinking water from wells that are documented or suspected to be located within the contamination boundary of the release.

There is a suspected release of contaminants to groundwater, since contaminated soil was left in place over an extended period of time. However, the contaminants are not suspected to have reached the screened depths of the nearby wells, since the screened depths of wells within 1/4 mile of the site are over 100 feet from the surface. The areas of contamination have been covered with asphalt so any future contamination is not suspected to occur since rainwater will not be able to transport contaminants to the groundwater. Therefore, no populations are considered to be located within the contamination boundary of release.

Ref. Nos. 47, p. 2, 5; 49

6. Identify the population served by wells that are not expected to be contaminated located within 4 miles of the site that draw from the aquifer of concern.

<u>Distance</u>	Population
0 - ¼ mi	30
>¼ -½ mi	105
>½ - 1 mi	11,665
>1 - 2 mi	6,375
>2 - 3 mi	23,590
>3 - 4 mi	6,980
Total:	48,745

State whether groundwater is blended with surface water, groundwater, or both before distribution.

Twelve of the thirteen public supply wells serving Vineland are located within four miles of the O.I. Kimble STS, Inc. site. The water from these wells are all blended into one system which supplies Vineland City. The total population served by groundwater is approximately 48,745 people. Using the number of public supply meter connections of 12,982 and multiplying by the 1990 Census city average of 2.81 persons per household, and assuming that each meter represents one household, a total of approximately 36,480 persons are served by the thirteen public supply wells. Since all wells are part of a blended system it can be assumed, for purposes of this report, that each well supplies an equal number of people. Dividing the total population using public water, 36,480 people, by the thirteen public wells, a total of 2,806 people can be estimated to be served by each well. The population supplied by one well was then multiplied by the number of wells per distance ring to determine the total population supplied by public supply wells. Using the TIGER population data of 52,869 people within 4 miles and subtracting the 1,500 people served by Minotola Water Department and those served by public supply yields 14,890 people served by private water supply within 4 miles. If 5% of the population within city limits and 95% of the people outside city limits use private supply and the percentage of the city within city limits is estimated from the 4 mile vicinity map, one can determine the number of people served by private supply in each area. The people served by public and private supply were added together to arrive at the total people served by groundwater in each ring (See Ref. No. 41 for calculation).

Ref. Nos. 14, 25, 30, 41

7. Is there a wellhead protection area within 4 miles of the site?

Wellhead protection areas have not yet been delineated for New Jersey.

Ref. No. 42

8. Does a waste source overlie a designated or proposed wellhead protection area? If a release to groundwater is observed or suspected, does a designated or proposed wellhead protection area lie within the contaminant boundary of the release?

Wellhead protection areas have not yet been delineated for New Jersey.

Ref. No. 42

9. Identify uses of groundwater within 4 miles of the site (i.e. private drinking source, municipal source, commercial, irrigation, unusable).

Groundwater is used as a municipal source, private drinking source, industrial source, irrigation, and a commercial source within 4 miles of the site.

Ref. Nos. 11, 19

SURFACE WATER ROUTE

10. Describe the likelihood of a release of contaminant(s) to surface water as follows: observed release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release, define the supporting analytical evidence.

There is no suspected release of contaminants to surface water. During the period when the mercury and PCB contaminated soils were left in place, contaminants could have migrated to the storm drains on site during extensive rainfalls. Contaminants are not suspected to have reached surface water; however, since the contaminants would have to travel through approximately 3,960 feet of Vineland City Storm Sewer System and an open ditch before reaching the surface water. The remaining waste units in the Hazardous Waste Storage Building and other buildings where PCB-containing transformers are stored are contained in enclosed structures on diked, concrete pads surrounded by fencing.

Ref. Nos. 44; 47, p.5,6; 49

11. Identify the nearest downslope surface water. If possible, include a description of possible surface drainage patterns from the site.

The nearest downslope surface water is Pine Branch which flows into the Blackwater Branch. The site is relatively flat with only a slight pitch toward Pine Branch, but the site is connected to Pine Branch through two NJPDES permitted outfalls to the city storm water system which lead to a drainage ditch that feeds into the Pine Branch.

Ref. Nos. 12, 20, 44

12. What is the distance in feet to the nearest downslope surface water? Measure the distance along a course that runoff can be expected to follow.

O.I. Kimble has two NJPDES permitted outfalls to the city storm sewer system on site, which drain the 60-acre site. The city storm sewer system empties into a drainage ditch and then into the Pine Branch. Counting the city storm sewer system, the distance to the nearest surface water is 3,960 feet.

Ref. Nos. 12, 22, 44

13. Determine the type of floodplain that the site is located within.

The site is located outside of the 500-year floodplain.

Ref. No. 10

14. Identify drinking water intakes in surface waters within 15 miles downstream of the point of surface water entry. For each intake identify: the name of the surface water body in which the intake is located, the distance in miles from the point of surface water entry, population served, and stream flow at the intake location.

<u>Intake</u>	<u>Distance</u>	Population Served	Flow (cfs)
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There are no drinking water intakes in surface waters within 15 miles downstream of the point of surface water entry.

Ref. Nos. 14, 26, 31

15. Identify fisheries that exist within 15 miles downstream of the point of surface water entry. For each fishery specify the following information:

Fishery Name	Water Body Type	Flow (cfs)	Saline/Fresh/Brackish
Blackwater Branch	small stream	10-100 cfs*	fresh
Maurice River (above Union Lake)	moderate to large stream	280.75 cfs	fresh
Union Lake	open water	280.75 cfs**	fresh
Maurice River (below Union Lake)	moderate to large stream	317.12 cfs	fresh

- * The Blackwater Branch flows into the Maurice River, it is estimated to have a flow between 10-100 cfs.
- ** Union Lake's flow is estimated to be 280.75 cfs based on the flow of the Maurice River when it enters the lake.

Ref. Nos. 15, 16, 19, 22

16. Identify surface water sensitive environments that exist within 15 miles of the point of surface water entry. For each sensitive environment specify the following:

Sensitive Environment	Water Body Type	Flow (cfs)	Wetland Frontage (miles)
Habitat for Federally endangered species	Maurice River	280.75 cfs	N/A
Habitat for Federally threatened species	Maurice River	280.75 cfs	N/A
Habitat for State endangered species	Maurice River	280.75 cfs	N/A
Habitat for State threatened species	Maurice River	280.75 cfs	N/A

In the 23 miles of palustrine wetlands adjacent to the Maurice River there are known occurances of federal and state listed plant and animal species. The federally listed threatened plant species swamp pink (Helonias bullata) has been found in these wetlands. The federally listed endangered bald eagle (Haliaeetus leucocephalus) is known to feed, roost, and breed along the Maurice River. The peregrine falcon (Falco peregrinus), a federally listed endangered species, may also occur along the Maurice River as a transient. State designated endangered species include swamp pink (Helonias bullata), timber rattlesnake (Crotalus horrilus), twisted spikerush (Eleocharis tortilis), new jersey rush (Juncus caesariensis), and curyl grass fern (Schizaea pusilla). State designated threatened species include pine snake (Pituophis melanoleucos), and barred owl (Strix varia).

The Union Lake Wildlife Management Area, which borders the Maurice River to the west, has been designated a "Wetland of International Importance". The Maurice River itself is currently being considered for inclusion into the National Wild and Scenic River System.

Ref. Nos. 45, 46

17. If a release to surface water is observed or suspected, identify any intakes, fisheries, and sensitive environments from question Nos. 14-16 that are or may be located within the contamination boundary of the release.

Intake: None

Fishery: None

Sensitive Environment: None

SOIL EXPOSURE PATHWAY

18. Determine the number of people that occupy residences or attend school or day care on or within 200 feet of the site property.

There are no residences, schools, or day care facilities within 200 feet of the Hazardous Waste Storage Building, buildings housing the PCB-containing transformers, mercury contaminated soil area, and the PCB-contaminated soil area.

Ref. No. 44, p. 13

19. Determine the number of people that regularly work on or within 200 feet of the site property.

The site employees 1,100 people and there are no other businesses within 200 feet of the Hazardous Waste Storage Building, buildings housing PCB-containing transformers, mercury contaminated soil area, and the PCB-contaminated soil area.

Ref. No. 44, p. 13

20. Identify terrestrial sensitive environments on or within 200 feet of the site property.

There are no terrestrial sensitive environments located within 200 feet of the site.

Ref. Nos. 20, 45

AIR ROUTE

21. Describe the likelihood of release of contaminants to air as follows: observed release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release define the supporting analytical evidence.

There is no suspected release of contaminants to air, since all waste units in the Hazardous Waste Storage Building, and other buildings housing the PCB-containing transformers are contained in enclosed structures. The mercury-contaminated soil and the PCB-contaminated soil areas are currently covered over with asphalt.

Ref. No. 44, p. 11, 12

22. Determine populations that reside within 4 miles of the site.

Distance	Population
0 - ¼ mi	575
>¼ -½ mi	2,090
> ½ - 1 mi	8,775
>1 - 2 mi	15,305
>2 - 3 mi	15,665
>3 - 4 mi	10,465
Total:	52,875

Ref. No. 25

23. Identify sensitive environments, including wetlands and associated wetlands acreage, within ½ mile of site.

0 - ¼ mile
Sensitive Environments/Wetland Acreage

¼ - ½ mile
Sensitive Environments/Wetland Acreage

None

None

Ref. Nos. 20, 45

24. If a release to air is observed or suspected, determine the number of people that reside or are suspected to reside within the area of air contamination from the release.

There is no suspected release of contaminants to air, since all waste units in the Hazardous Waste Storage Building and other buildings that house transformers containing PCB oil are contained in enclosed structures. The areas of soil contamination are currently covered with asphalt.

Ref. No. 44, pp. 11-13

25. If a release to air is observed or suspected, identify any sensitive environments, listed in question No. 21, that are or may be located within the area of air contamination from the release.

There is no suspected release of contaminants to air, since all waste units in the Hazardous Waste Storage Building and other buildings that house transformers containing PCB oil are contained in enclosed structures. The areas of soil contamination are currently covered with asphalt.

Ref. No. 44, pp. 11-13

This Report was conducted under the following USEPA Documentation Procedure

Guidance for Performing Preliminary
Assessments Under CERCLA
Publication 9345.0-01A

ATTACHMENT 1

EXHIBIT A

PHOTOGRAPH LOG

O.I. KIMBLE STS, INC. VINELAND, NEW JERSEY

ON-SITE RECONNAISSANCE: AUGUST 12, 1992

PHOTOGRAPH INDEX

O.I. KIMBLE STS, INC. VINELAND, NEW JERSEY AUGUST 12, 1992

ALL PHOTOGRAPHS TAKEN BY ANTHONY CULMONE

Photo Number	<u>Description</u>	<u>Time</u>
1P-1	Empty plastic drums, previously containing HCL, awaiting return to supplier for refill.	1227
1P-2	View of metal drums in receiving area under overhang.	1229
1P-3	View of flammables and solvents storage area.	1230
1P-4	View of empty drums awaiting reuse outside Hazardous Waste Storage Building.	1240
1P-5	View of 48 drums of ceramic waste inside Hazardous Waste Storage Building.	1242
1P-6	View of 17 drums of refractory pieces inside Hazardous Waste Storage Building.	1242
1P-7	View of 1 drum of PCB oil inside Hazardous Waste Storage Building.	1242
1P-8	View of compressor cooling discharge which goes to discharge no. 001.	1258
1P-9	View of mercury remediation site.	1305
1P-10	View of air stripper still under construction.	1312
1P-11	View of former transformer and PCB leak location.	1315
1P-12	View of discharge no. 002 leading to East Ave.	1320

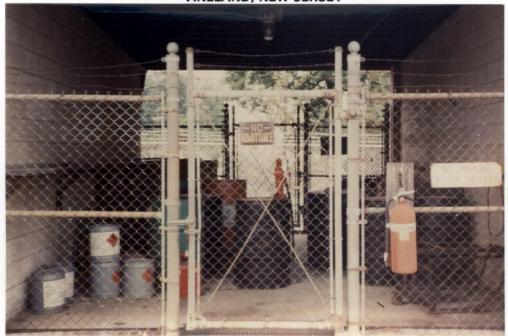
PHOTOGRAPH INDEX (CONT'D)

O.I. KIMBLE STS, INC. VINELAND, NEW JERSEY AUGUST 12, 1992

ALL PHOTOGRAPHS TAKEN BY ANTHONY CULMONE

Photo Number	<u>Description</u>	<u>Time</u>
1P-13	View of bag house dust storage	1324
1P-14	View of air stripper (north end of site) and a hopper containing raw materials (sand and crushed glass).	1330
1P-15	View of discharge no. 001	1340
1P-16, 17	View of facility from East and Spruce Streets.	1353

O.I. KIMBLE STS, INC. VINELAND, NEW JERSEY



1P-3 August 12, 1992
View of flammables and solvents storage area.



1P-4 August 12, 1992
View of empty drums awaiting reuse outside
Hazardous Waste Storage Building.

1227

PHOTOGRAPH LOG

O.I. KIMBLE STS, INC. VINELAND, NEW JERSEY



1P-1 August 12, 1992
Empty plastic drums, previously containing HCL, awaiting return to supplier for refill.



1P-2 August 12, 1992 1229
View of empty metal drums in receiving area under overhang.

O. I. KIMBLE STS, INC. VINELAND, NEW JERSEY



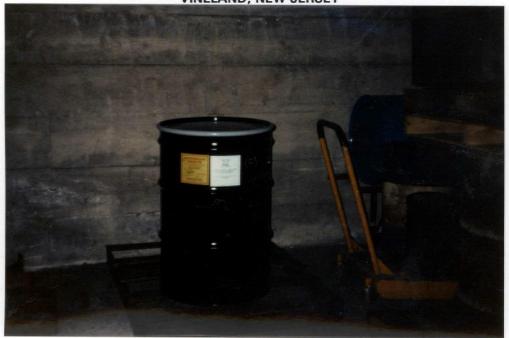
1P-5 August 12, 1992
View of 48 drums of ceramic waste inside
Hazardous Waste Storage Building.

1242



1P-6 August 12, 1992
View of 17 drums of refractory pieces inside
Hazardous Waste Storage Building.

O.I. KIMBLE STS, INC. VINELAND, NEW JERSEY



1P-7 August 12, 1992
View of one drum of PCB oil inside Hazardous
Waste Storage Building.

1242



1P-8 August 12, 1992
View of compressor cooling discharge which goes to discharge 001.

O.I. KIMBLE STS, INC. VINELAND, NEW JERSEY



1P-9 August 12, 1992 View of mercury remediation site.

1305



1P-10 August 12, 1992
View of air stripper still under construction.

O.I. KIMBLE STS, INC. VINELAND, NEW JERSEY



1P-11 August 12, 1992
View of former transformer and PCB leak location.



1P-12 August 12, 1992
View of discharge no. 002 leading to East Ave. storm drain system.

O.I. KIMBLE STS, INC. VINELAND, NEW JERSEY



1P-13 August 12, 1992 View of bag house dust storage.

1324



1P-14 August 12, 1992
View of air stripper (north end of site) and a hopper containing raw materials (sand and crushed glass).

O.I. KIMBLE STS, INC. VINELAND, NEW JERSEY



1P-15 August 12, 1992 View of discharge no. 001.

O.I. KIMBLE STS, INC. VINELAND, NEW JERSEY



1S-16, 17

August 12, 1992 View of facility from East and Spruce Streets.

ATTACHMENT 2

REFERENCES

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- U.S. EPA, Acknowledgement of Notification of Hazardous Waste Activity (Verification), Owens-Illinois, Inc., NJD002342087, October 9, 1980.
- 3. Letter from John C. Brigham, Plant Manager, Kimble Division, to U.S. EPA. April 3, 1987.
- U.S. EPA, Acknowledgement of Notification of Hazardous Waste Activity, O.I. Kimble STS, Inc., NJD002342087, undated.
- U.S. EPA, Notification of Hazardous Waste Activity, O.I. Kimble STS, Inc., NJD002343087, March 19, 1987.
- 6. Letter from Ernest J. Kuhlwein, Jr., Acting Chief, Bureau of Hazardous Waste Engineering (BHWE), State of New Jersey, Department of Environmental Protection (NJDEP), Division of Hazardous Waste Management (DHM), to John C. Brigham, Plant Manager, Owens-Illinois, Inc., May 5, 1987.
- Memorandum from Ernest J. Kuhlwein, Jr., Chief, BHWE, NJDEP, DHW, to BHWE Staff, April 29, 1987.
- 8. Letter from Ernest J. Kuhlwein, Jr., Chief, BHWE, NJDEP, DHM to Walter Wenner, Kimble Glass, Inc., December 10, 1987.
- Letter from Thomas Sherman, Chief, BHWE, NJDEP, DHM, to Walter Wenner, Supervisor, Environmental Engineering Services, OI Kimble Division, December 15, 1989.
- 10. Federal Emergency Management Agency, Flood Insurance Rate Map, City of Vineland, New Jersey, Community-Panel Number 340176 0015B, Effective Date: July 5, 1982.
- 11. Groundwater Resources of Cumberland County, Special Report No. 34, State Of New Jersey Department of Environmental Protection, Division of Water Resources, 1971.
- 12. New Jersey 1986, State Water Quality Inventory Report.
- 13. 40 CFR Part 300, Volume 55, No. 241, P.51601, December 14, 1990.
- Telecon Note: Conversation between Paul Horner, City of Vineland Water Department, and Corry
 Platt, HALLIBURTON NUS Environmental Corporation, July 16, 1992.
- 15. Telecon Note: Conversation between Hugh Carberry, New Jersey Department of Environmental Protection, Bureau of Freshwater Fisheries, Southern Region, to Corry T. Platt, HALLIBURTON NUS Environmental Corporation, July 15, 1992.
- 16. Fax Transmittal from Hugh M. Carberry, NJDEP, Bureau of Freshwater Fisheries, to Corry T. Platt, HALLIBURTON NUS Environmental Corporation, July 15, 1992.
- 17. Wagner, Travis. <u>The Complete Handbook of Hazardous Waste Regulation</u>. Perry Wagner Publishing Co., Inc.

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- Four-Mile Vicinity Map for O.I. Kimble STS, Inc. based on U.S. Geological Survey Topographic Maps, 7.5-minute series, Quadrangles for Buena, NJ, 1953, photorevised 1972; Five Points, NJ, 1956, photorevised 1983; Millville, NJ, photorevised 1983; Newfield, NJ, 1953, photorevised 1972.
- 20. Fifteen-Mile Surface Water Pathway Map for O.I. Kimble STS, Inc. based on U.S. Department of the Interior, Fish and Wildlife Service, National Wetlands Inventory, Quadrangles for Millville, NJ; and Newfield, NJ.
- 21. Telecon Note: Conversation between George Sartorio, Vineland Health Department, and Corry T. Platt, HALLIBURTON NUS Environmental Corporation, August 5, 1992.
- 22. Project Note: From Corry T. Platt, HALLIBURTON NUS Environmental Corporation, to O.I. Kimble STS, Inc. File, RE: Conversion of Maurice River Flow, July 23, 1992.
- 23. Telecon Note: Conversation between Anthony Casadia, Minotola Water Utility, and Corry T. Platt, HALLIBURTON NUS Environmental Corporation, July 24, 1992.
- 24. Telecon Note: Conversation between Town Clerk, Newfield, NJ, and Corry T. Platt, HALLIBURTON NUS Environmental Corporation, July 24, 1992.
- 25. Memorandum from Bob Frost, Frost Associates, to Lilli Gonzalez, Malcolm Pirnie Inc, Subject: Tiger Population Data for O.I. Kimble STS, Inc., July 20, 1992.
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- 38. NJDEP, DHM, Hazardous Waste Inspection Report, for Kimble Glass, Inc., NJD002342087, November 13, 1990.
- 39. NJDEP, DWM, Incident Report, for Owens-Illinois, Inc., NJD002342087, July 17, 1984.
- 40. Telecon Note: Conversation between Paul Horner, Vineland Water Department, and Corry T. Platt HALLIBURTON NUS Environmental Corporation, July 28, 1992.
- 41. Project Note: From Corry T. Platt, HALLIBURTON NUS Environmental Corporation, to O.I. Kimble STS, Inc. File, Re: Determination of population served by wells within 4 miles, August 7, 1992.
- 42. Telecon Note: Conversation between Dan Van Abs, NJDEPE, Bureau of Water Supply Planning, and Kathy Campbell, HALLIBURTON NUS Environmental Corporation, February 14, 1992.
- 43. Telecon Note: Conversation between Bud Cavallo, Vineland Water Utility, and Corry T. Platt, HALLIBURTON NUS Environmental Corporation, August 5, 1992.
- 44. Field Notebook No. HNUS 040, O.I. Kimble STS, Inc., NOMAD No. J098, On-Site Reconnaissance, HALLIBURTON NUS Environmental Corporation, Iselin, New Jersey, August 12, 1992.
- 45. Letter from Elena A. Williams, Senior Planner, Natural Heritage Program, to Corry T. Platt, HALLIBURTON NUS Environmental Corporation, August 13, 1992.
- 46. Letter from Clifford G. Day, Supervisor, United States Department of the Interior, Fish and Wildlife Service, to Corry T. Platt, HALLIBURTON NUS Environmental Corporation, August 14, 1992.
- 47. Letter from Walter Wenner, Maintenance Supervisor, O.I. Kimble STS, Inc., to Anthony Culmone, HALLIBURTON NUS Environmental Corporation, August 19, 1992, with attachments.
- Telecon Note: Conversation between Paul Horner, Vineland City Water Department, and Corry
 Platt, HALLIBURTON NUS Environmental Corporation, August 24, 1992.
- 49. Telecon Note: Conversation between Walter Wenner, O.I. Kimble STS, Inc., and Corry T. Platt, HALLIBURTON NUS Environmental Corporation, August 24, 1992.
- 50. Fax Transmittal from Alice R. Brown, Keystone Block Transportation Co., to Corry T. Platt, HALLIBURTON NUS Environmental Corporation, August 27, 1992.
- 51. Telecon Note: Conversation between John Drake, Camp, Dresser and McKee, and Corry T. Platt, HALLIBURTON NUS Environmental Corporation, September 1, 1992.

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III. PROCESSES (continued)

SPACE FOR ADDITIONAL PROCESS CODES ON FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

. DESCRIPTION OF HAZARDOUS WASTES

EPA HAZARDOUS WASTE NUMBER — Enter the four—digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four—digit number(s) from 40 CFR, Subpart C that describes the characteris tics and/or the toxic contaminants of those hazardous wastes. 1 1 M

ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant. A Principal Commence

UNIT OF MEASURE -For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE CODE ENGLISH UNIT OF MEASURE

POUNDS

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If facility, records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the water and the specific gravity of the specific gravity of the water and the specific gravity of the water

- PROCESSES CODES TO THE PROCESS CODES CODES TO THE PROCESS CODES CODES CODES TO THE PROCESS CODES CO
- To indicate now the waste will be stored, reated, and/or disposed of at the jacility, the first the code (s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes, that possess that characteristic or toxic contaminant.

 Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter, "000" in the
- extreme right box of [tem IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).
- PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.
- HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER Hezardous westes that can be described by
- re than one EPA Hazardous Waste Number shall be described on the form as follows:
- Selections of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B.C. and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.

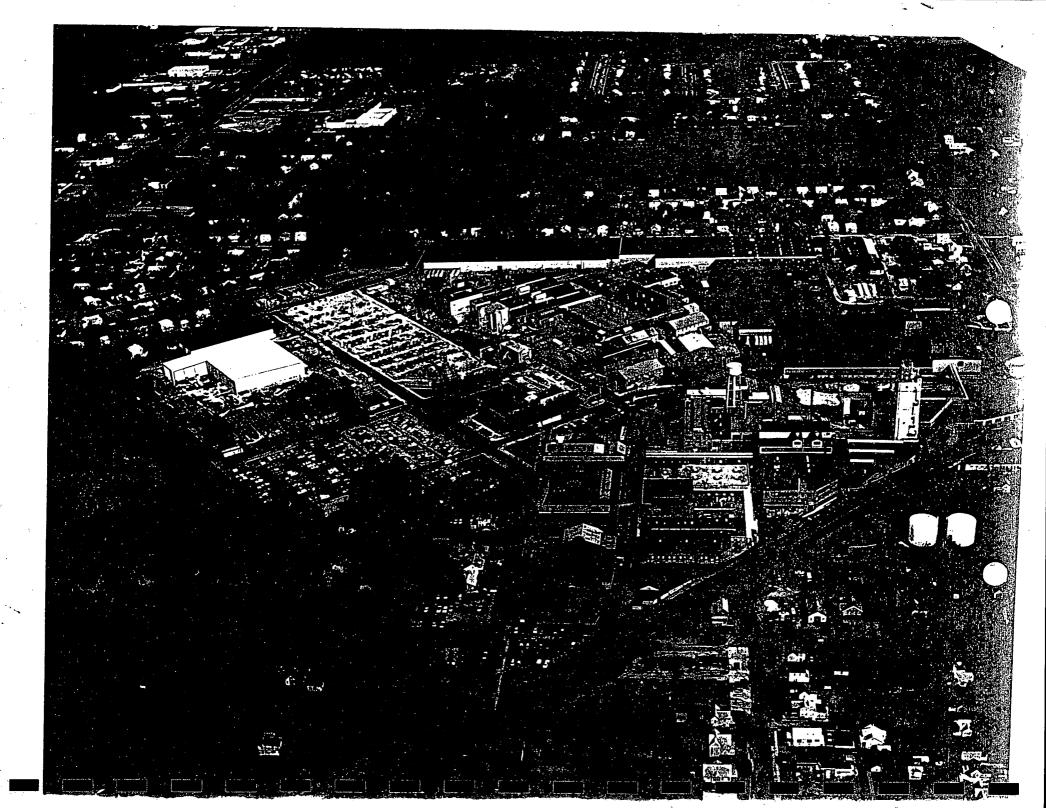
 In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter-
- Included with above and make no other entries on that line.
 3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

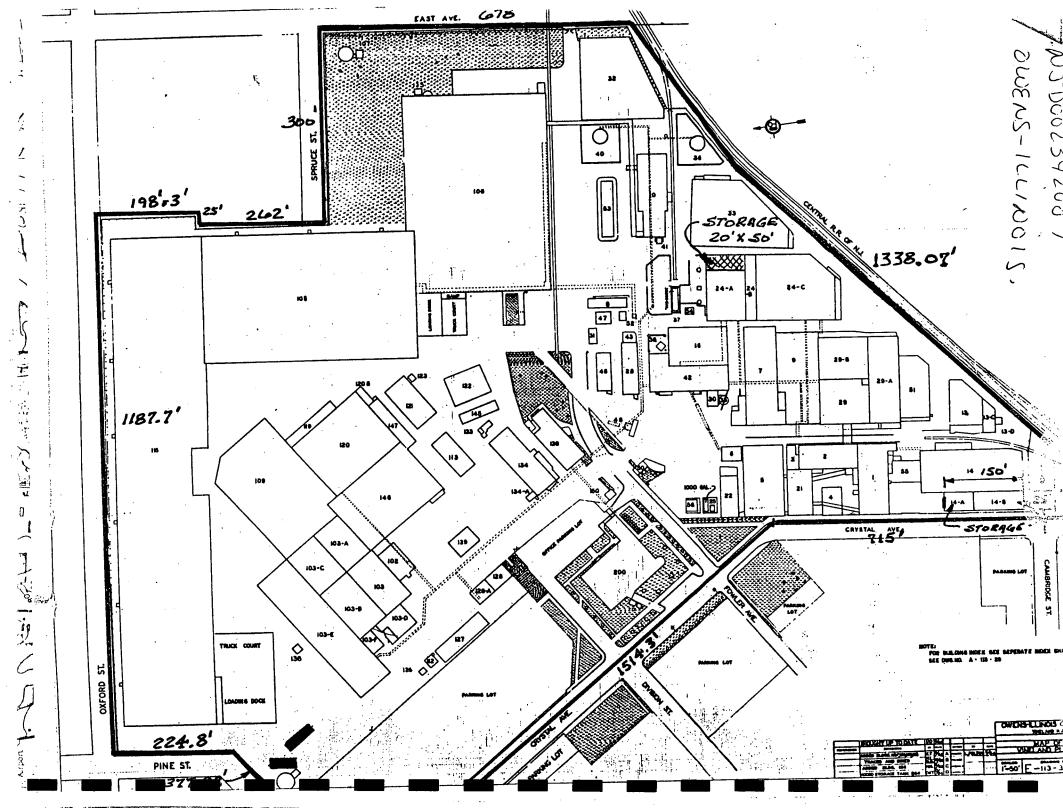
EXAMPLE: FOR COMPLETING ITEM IV shown in line numbers x1, x2, x3, and x4 below)—A facility will treat and dispose of an estimated 900 pounds in year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non—listed wastes. Two wastes a corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

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IV. DESCRIPTION OF HAZARDOUS WAST	(continued)			
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If existing facilities must include in the space provide	d on page 5 a scale drawing of	the facility (see instructions i	for more detail).	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN T
VI. PHOTOGRAPHS				COMPANY TO A RESTRICT OF THE PROPERTY OF THE
Il existing facilities must include photographs eatment and disposal areas; and sites of future				ing storage,
VII. FACILITY GEOGRAPHIC LOCATION	storage, treatment or disp	Josaf aleas (see mistraction)	s for more detail).	(1) 23 mm 医对进程加热性性衰竭的
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VIII. FACILITY OWNER			74 78 78 777 - 79	
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-ekip to Section IX below.				
B. If the facility owner is not the facility operator	ras listed in Section VIII on P	Form 1, complete the trollowing	ig items:	十十十十十十十二十
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, OPERATOR CERTIFICATION				11 × 11
I certify under penalty of law that I have person	ally examined and am fam	iliar with the information	submitted in this and	all attached 1 2000
pcuments, and that based on my inquiry of the	se individuals immediately	v responsible for obtaining	the information, I be	lieve that the
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EPA Form 3510-3 (6-80)	PAGE 4 O	. = 1		ONTINUE ON PAGE 5







ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS WASTE ACTIVITY (VERIFICATION)

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBER

INSTALLATION ADDRESS

CRYSTAL AVE VINELAND.

CRYSTAL & FOWLER AVES AIRETUND.

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08360

EPA Form 8700-12B (4-80)

10/09/80

April 3, 1987

U.S. Environmental Protection Agency Region II Permits Administration Branch 26 Federal Plaza New York, New York 10007

name change V

Re: Owens-Illinois, Inc. RCRA EPA ID. #NJD002342087 Vineland, New Jersey

Dear Sir/Madam:

By letter last month we advised you, as the issuer of the above-described permit, of the tender offer for the stock of, and the subsequent corporate restructuring for, Owens-Illinois, Inc. As our prior letter advised, the tender offer was successfully completed on March 17, 1987. However, our prior letter to you also stated that the corporate restructuring would be completed on April 30, 1987, with the above-described permit thereafter being held under the name of OI Kimble STS Inc., a Delaware corporation. We have since determined that the date on which this restructuring is to be completed should be accelerated to April 15, 1987. We are therefore requesting that your records be corrected to reflect this new completion date.

Again, as we advised you, this is a friendly tender offer/reorganization. The operations and management of the permitted facility will continue as in the past. We are simply reorganizing the various operating facilities of Owens Illinois, Inc., into separate wholly-owned subsidiaries.

We trust that this change in the completion date for our reorganization will not cause you any administrative inconvenience. If you require anything additional from us concerning this matter, please contact the undersigned at your earliest convenience.

Thank you for your consideration.

John C. Brigham Kimble Division Plant Manager

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		I.D FOR OFFICIAL USE ONLY
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iX. DESCRIPTION OF HAZARDOUS WASTES (continued from front)	
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B. HAZARDOUS WASTES FROM SPECIFIC SOURCES. specific industrial sources your installation handles. Use	Enter the four—digit number from 40 CFR additional sheets if necessary.	Part 261.32 for each listed hazardous waste from
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C. COMMERCIAL CHEMICAL PRODUCT HAZARDOUS stance your installation handles which may be a hazardo	WASTES. Enter the four-digit number fro us waste. Use additional sheets if necessary.	m 40 CFR Part 261.33 for each chemical sub-
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D. LISTED INFECTIOUS WASTES. Enter the four-digit r hospitals, medical and research laboratories your installat	number from 40 CFR Part 261,34 for each li ion handles. Use additional sheets if necessi	sted hazardous waste from hospitals, veterinary
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E. CHARACTERISTICS OF NON-LISTED HAZARDOUS hazardous wastes your installation handles. (See 40 CFR)	WASTES. Mark "X" in the boxes correspondents 261.21 - 261.24 I	nding to the characteristics of non-listed
- 「一直発展の基準をあった。」	RROSIVE 3. REACTIV	/E
X. CERTIFICATION	(D001)	(D000)
I certify under penalty of law that I have persone	illy examined and am familiar with the	
attached documents, and that based on my inquiry I believe that the submitted information is true, as mitting false information, including the possibility of	courses and complete I am neutrities	e information submitted in this and all ponsible for obtaining the information, it there are significant penalties for sub-
IGNATURE	NAME & OFFICIAL TITLE (type or print	DATE SIGNED
	Joseph A. Lucca	
	PLANT MANAGER	
PA Form 8700-12 (6-80) REVERSE		

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ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

PAILD. NUMBER

PAID 02342087

OT KIMBLE STS INC.

OHENS-ILLINOIS INC.

CRISTAL AVE

VINELAND,

CRYSTAL & POWLER AVES

VINELAND,

NJ 08360

CRYSTAL & POWLER AVES

VINELAND,

NJ 08360

EPA Form 8700-12A (4-80)



State of New Jersen DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS WASTE MANAGEMENT

John J. Trela, Ph.D., Acting Director 401 East State St. CN 028 Trenton, N.J. 08625 609 - 633 - 1408

John C. Brigham, Plant Manager Owens-Illinois, Inc. Crystal Avenue Vineland, NJ 08360

MAY - 5 1987 File

Dear Mr. Brigham:

Change of Ownership, Owen-Illinois, Vineland, EPA ID NO. NJD 002 342 087

The Bureau of Hazardous Waste Engineering (Bureau) acknowledges receipt of a letter dated March 16, 1987, signed by you. This letter pertains to the change of ownership and name from Owens-Illinois, Inc. to OI Kimble STS, Inc.

This Bureau wishes to inform you that the referenced facility should have submitted the following information to this Bureau for review and approval before the name change took place.

Pursuant to N.J.A.C. 7:26-12.3(c)4, the prospective new owner shall submit the following information to the Department for approval:

- a) A revised Part A application reflecting the name change.
- A notification of change in ownership pertaining to the potential b) applicability of N.J.A.C. 7:26-1-3, regulations under Environmental Cleanup Responsibility Act (ECRA).
- Owens-Illinois (old owner) shall comply with the hazardous waste facility financial requirements of N.J.A.C. 7:26-9.10 and 9.11, until OI Kimble STS (new owner) has demonstrated to the Department that it is complying with those sections. duties are transferred immediately upon the date of the change of ownership of the facility. Upon demonstration of such compliance, the Department will notify the old owner that it no longer needs to comply with those sections as of the date of demonstration.

It is understood by this Bureau that the Bureau of Industrial Site Evaluation (BISE) has been notified of the ownership change, and that Case #87174 has been assigned to the facility.

The above mentioned information shall be submitted to this Bureau no later than May 15, 1987.

Please note that since the Department was not notified 180 days prior to this transaction, this matter will therefore, be referred to the enforcement element for whatever action they deem necessary.

Any questions concerning this matter can be addressed to Sunita Sharma at (609) 292-9880.

Very truly yours

Ernest J. Kuhlwein, Jr.

Acting Chief

Bureau of Hazardous Waste Engineering

EP60/slw

cc: Lori Amato, USEPA Karl Delaney, BC&TS

Enclosures: Part A

AIS Form



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS WASTE MANAGEMENT

John J. Trela, Ph.D., Acting Director 401 East State St. CN 028 Trenton, N.J. 08625 609 · 633 · 1408

NJD002542087

APR 2 9 1987

MEMORANDUM

TO:

BHWE Staff

FROM:

Ernest J. Kuhlweih, Jr., Chief

Bureau of Hazardous Waste Engineering

SUBJECT:

ECRA/BHWE Overlap Cases

Below is an update to the list of RCRA TSD facilities which are undergoing simultaneous ECRA case management and RCRA review. The following list includes the newest ECRA/RCRA overlap cases from January 1987 through March 1987.

d = delisting
sp = seeking HWF RCRA Permit

ECRA Cases That Are Also BHWE RCRA TSD Facilities

Notice	Status	Company	Municipality
87025 87027 87159 87174 87218 87219 87263 87117	d sp d	Brush-Wellman Safety-Kleen RCA Corporation Owen-Illinois, Inc. Oxy Process Chemicals Oxy Process Chemicals Ethicon, Inc. BASF Corporation	Hampton Bound Brook Camden Vineland Carlstadt Harrison Town Bridgewater Hawthorne

EP51/lwg

cc: Jonathan Berg

Lori Amalo, USEPA John Mateo, BEMQA



CCE

State of New Jersey

no firmed murits DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS WASTE MANAGEMENT

John J. Trela, Ph.D., Director 401 East State St. CN 028 Trenton, N.J. 08625 609 - 633 - 1408

Walter Wenner Kibmle Glass Inc. Crystal Avenue Vineland, N.J. 08360 dore 6-6-85 DEC 10 1987

CNT10: 11/30/87 co uzunto delistro.

Dear Mr. Wenner:

DELISTING REQUEST FOR KIMBLE GLASS INC., VINELAND, EPA ID NO. NJD RE: 002 342 087

The Bureau of Hazardous Waste Engineering (the Bureau) acknowledges receipt of your delisting request letter, dated November 30, 1987, for referenced facility's container storage area (SO1) pursuant to N.J.A.C. 7:26-9.3(a).

For Kimble Glass to delist from TSD status to generator status, the facility must comply with the requirements of N.J.A.C. 7:26-9.3(a). Namely, a generator may accumulate hazardous waste on-site without a permit for 90 days or less provided that:

- All such waste is, within 90 days or less, shipped off-site to an authorized facility, as defined in N.J.A.C. 7:26-1.4.
- The waste is placed in containers which meet the standards of N.J.A.C. 2. 7:26-7.2 and are managed in accordance with N.J.A.C. 7:26-9.4(d).
- 3. The date upon which each period of accumulation begins is clearly marked and visible for inspection on each container.
- The generator complies with the requirements for owners and operators of N.J.A.C. 7:26-9.6 and 9.7 concerning preparedness and prevention, contingency plans and emergency procedures as well as N.J.A.C. 7:26-9.4(g) concerning personnel training.

Kimble Glass should state that the facility will comply with items 1-3 above and should submit to this Bureau copies of the facility's Preparedness and Prevention, Contingency Plans and Emergency Procedures which must conform to N.J.A.C. 7:26-9.6 and 9.7 as well as a personnel training program which conforms to N.J.A.C. 7:26-9.4(g).

Kimble Glass will have to "close" its drum storage area.

Prior to being delisted, a closure plan must be submitted which is in compliance with N.J.A.C. 7:26-9.8. The drum storage area will have to be decontaminated and analytical/test procedures conducted to verify decontamination. No soil sampling is deemed applicable to the indoor drum storage area.

You should submit the requested information in timely fashion so that closure activities can be approved and will be in progress by February 13, 1985 (date requested of the the facility to submit a Part B permit application). Failure to submit a complete and timely response by this date may result in referral of the matter to the Bureau of Compliance and Technical Services for whatever action they deem proper if closure or permitting has not been implemented.

If you have any questions concerning this matters, please contact Anthony Fontana at (609) 292-9880.

Very truly yours,

Emest & Kullwem In

Ernest J. Kuhlwein, Jr., Chief

Bureau of Hazardous Waste Engineering

EP63/1r

cc: Barry Tornick, EPA

Let's protect our earth

log

ENVIRONMENTAL PROTECTION AGENCY REGION II

89 DE@ 099639#1 4p838

HAZARDOUS WASTE FACILITIES BRANCH

CN 028 Trenton, N.J. 08625-0028

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam
Deputy Director
Hazardous Waste Operations

John J. Trela, Ph.D., Director

Lance R. Miller
Deputy Director
Responsible Party Remedial Action

/C1103=5 /C305=\$

DEC 15 1989

Walter G. Wenner, Supervisor
Environmental Engineering Services
OI Kimble Division
Crystal Avenue
Vineland, NJ 08360

1 C1105=6 1 C1804=2 for 501=30000 G

Dear Mr. Wenner:

RE: Regulatory Status of OI Kimble Division, Vineland, Cumberland County, EPA ID NO. NJD 002 342 087

The Bureau of Hazardous Waste Engineering (the "Bureau") acknowledges receipt of the closure certification by OI Kimble Division ("Kimble Glass"), dated October 24, 1988, including professional engineer certification by Camp, Dresser, & McKee, Inc., dated October 13, 1988. This submittal was provided in support of Kimble Glass' closure plan and in accordance with the closure plan approval document issued by the Department on April 29, 1988, signed by Frank Coolick, Assistant Director, Hazardous Waste Regulation.

The Bureau has reviewed this submittal along with the reports of RCRA inspections conducted by Department representatives on December 5, 1988, and August 2, 1989, as well as additional file information which supports Kimble Glass' delisting request. As a result of this review, the Bureau has determined that Kimble Glass no longer treats, stores, or disposes of hazardous waste at their Vineland facility and that Kimble Glass has properly completed the closure process.

Based on the aforementioned information, the Bureau hereby removes Kimble Glass, Vineland, from TSD status. Kimble Glass will retain EPA ID NO. NJD 002 342 087 and their status as a generator limited to 90 day accumulation of hazardous waste.

Kimble Glass is no longer included in the Department's list of "existing facilities" (see N.J.A.C. 7:26-1.4 and 12.3) and therefore does not need to conform with the interim operating requirements of N.J.A.C. 7:26-1 et seq. for "existing facilities". To operate a hazardous waste facility without prior approval from the Department is a violation of the Solid Waste Management Act N.J.S.A. 13:1E-1 et seq.

This written acknowledgement of the exclusion of the subject company from the hazardous waste facility requirements under N.J.A.C. 7:26-1 et seq. is

Walter G. Wenner Page 2

based expressly on the review of the aforementioned correspondence. This letter makes no claim as to the extent and physical condition of the actual hazardous waste activities occurring at the site mentioned above.

The issuance of this delisting letter by the Department does not indicate, or imply, and should not be construed as a waiver of any requirements pursuant to the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq. and regulations promulgated thereunder concerning the New Jersey Pollutant Discharge Elimination System, N.J.A.C. 7:14-1 et seq. If your facility is in any of the regulated categories identified in the above cited regulations, you are hereby directed to apply for any and all permits necessary within ninety days (or 180 days - at the option of DWR) to the Bureau of Ground Water Discharge Permits, CN 029, Trenton, New Jersey, 08625. Applications may be obtained by calling (609) 292-0424.

If there are any questions about this delisting letter, please contact Scot J. Frow of my staff at (609) 292-9880.

Very truly yours,

Thomas Sherman, Chief

Bureau of Hazardous Waste Engineering

EP48/slw

c: Barry Tornick, USEPA ✓ Chan Baldeo, BMIS Tom Downey, BSE

DOCUMENT: KIM FOLDER: SLWMCB

NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

CITY OF VINELAND, NEW JERSEY CUMBERLAND COUNTY

PANEL 15 OF 35

(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
340176 0015 B
EFFECTIVE DATE:
JULY 5, 1982

Federal Emergency Management Agency

INITIAL IDENTIFICATION:

MAY 4, 1973 FLOOD HAZARD BOUNDARY MAP REVISIONS

JULY 22 1977

FLOOD INSURANCE RATE MAP EFFECTIVE

311.M 5 1982

KEY TO MAP

500-Year Flood Boundary

Zone Designations*

100-Year Flood Boundary

500-Year Flood Boundary

Base Flood Elevation Line
With Elevation In Feet
Where Uniform Within Zone**

Elevation Reference Mark

Zone D Boundary

RM7

RM7

RM7

**Referenced to the National Geodetic Vertical Datum of 1929

River Mile

*EXPLANATION OF ZONE DESIGNATIONS

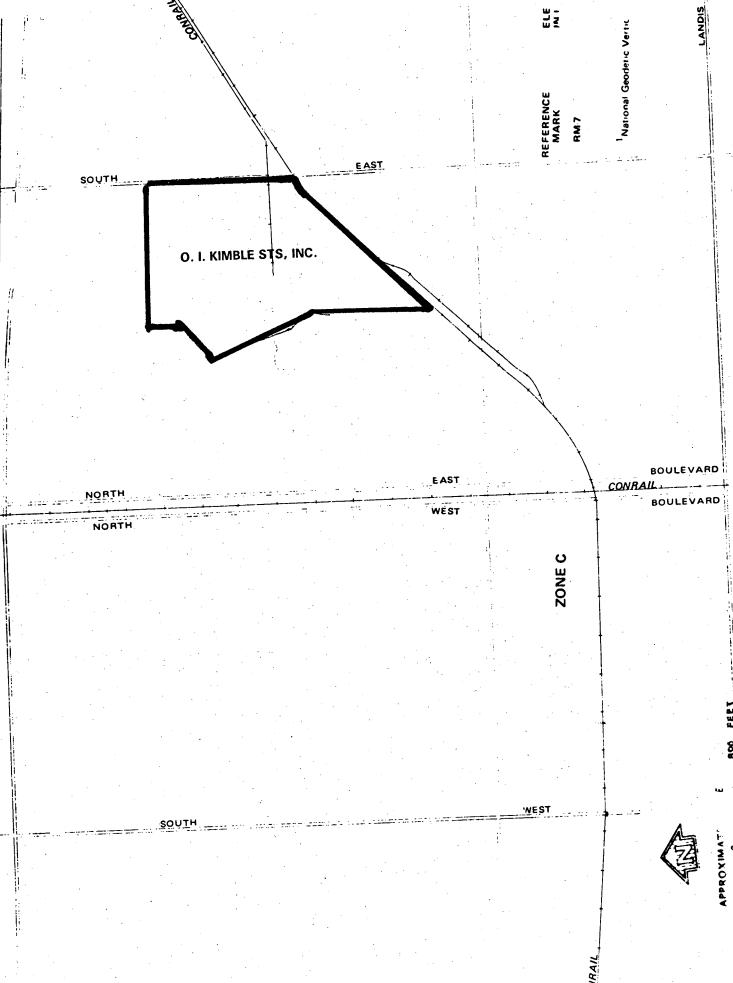
ZONE	EXPLANATION
, A	Areas of 100-year flood; hase flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
АН	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; hase flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood bazard factors not determined
В	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood (Medium shading)
C.	Areas of minimal flooding, (No shading)
D	Areas of undetermined, but possible, flood hazards
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

For adjoining man nametic see senarately printed Index To Man Panels.



STATEROF NEW DERSEY DEPARTMENTROF ENVIRONMENTAL PROTECTION

DIVISION OF WATER RESOURCES



Special report no.34.

GROUND-WATER RESOURCES
CUMBERLAND COUNTY, NEW JERSEY

GIONOCHEZE GONTATION WINTE THATTE IN GONTATION WINTE THATTE IN GOODLAND WINTE TABLE 14. -- RECORDS OF SELECTED WELLS IN COMMERCAND COUNTY, M.J. .- Continued

Aquifer: CH. Cape May Formation CH-EM, Cape May or Kishwood Ch-EM, Cohancey-Rishwood LXW, Invest Rishwood FF, Pincy Peint IM, Hownt Lourel and Wenonah ET, Englishtown

Well numbers are listed by political subdivision and correspond with well numbers in figure 2.

	Well Duner and Owner's Humber Well Humber			Altitude	Drilling	Year	Brilled depth	Maneter	Aquifer		T	u,	11 perfora	nure lest			
	MITTER C	Well Makes		of land outlace (feet)	Contractor	Or 111-4	depth drilled (feet)	of casing (inches)		setting (frrt)	14011	Statte	traution.	Specific	Pate		
			i			Ì					141-7	level (feet)		capacity laps/ft of draudous)		Remarks	
_						 -	ļ		ļ		 	<u> </u>	<u> </u>	<u> </u>		,	
	UP- 1	RLD YOURSHIPContinued Restroot Perso No. 3	Seatronk	100	Malaca A Massa	1955	174	.,	Ch. Ev	144- 141	,,,,	. 37		54	0-20-33	Industrial write.	
	10	Do. No. 6	40.	100	Chalky Soines	1930	143		Ch-Ev	115- 14					3- 9-59	4 n.	
	11	Do. 180, 7	4. ,	103	Chalky Saines	1938	144	10	Ch-Ew	114- 144	740		:		3-17-59	dn.	
	13	Do. Ro. 8	40 .	110	Vence Milmer	1930	100	12	Ch-Ev	127- 172	1,155	34				4 10.	
	13	Do, Do, 9	40 ,	**	Chalky Select	1936	100		Ch-E+	70- 10r	220	17			1-16-57	tertgattim well for preciboure,	
	14	Bo. Bo. 10	4 0.	101	Hotore & Houre	1940	143	12	Ch-Ev	121- 141	1.025		22	47	1934	Industrial well.	
	15	Do. No. 11	4- .	118	No. Stotboff Co.	1943	180	12	Ch-R+	1525 171	960	35	>>	10	1-16-56	u do.	
	. 16	90. No. 12	40.	117	*• .	1944	172	12	Ch-E+	147- 172	1,070	••	>7	19	3-11-57	4	
	17	Do. He. 13	40.	310	4- .	1944	183	12	Ch-R=	155- 180	1,190	39	"	22	4- 4-58	4 0.	
	18	Do. No. 14	do.	113	4-	1944	193	12	Ch- Kv		1,130	42	"	15 ,	1-22-58	An.	
	19	Chris thlead	Secies \$4., 2.0 mt west of St. 17	6 3	Haines & Hoora	1931	110	•	Ch-Ru	102- 104	12	24	l		6- 5-51	4n.	
	20	Louis Pisso	-	113	Drinneres Brilling	1964	134	17	Ch-Ru	16- 134	1,250	>2	42	30	3- 3-64	Concrete tritention well.	
	21	Seabrook Farms Co.	H. J. Control BB, 0.5 ml west of St. 77	105		1934	90	•	Ch-Kw	40- 9f	250				.1943	Exitantion well.	
	22	F, B. HcLeod	Love La., 1.8 ml west of St. 77	100	Heines & Moore	1949	100	•	Cb-Rv	100- 104	70	60	10	2	5- 5-49		
	2)	De.	40 .	90	6	1939	**	•	Ch-Xv	87- 9/	30	55		<i>;-</i> -	9-10-6)	Mett used by MSGS for water front means.	
	24	Bridgeton Shopping Ctr.	Carllo Corner	90	D'Agostino Well Drilling Co.	1962	133	4				4-			•-	Test boris.	
	25	Moodruff Little League	Moodruff-Gouldtown Ad.	90 90	40.	1936	72	4	Ch-Ku	40- N		12			6-25-54		
	*	Bev. Boston Turner	9.2'ml cost of Deorfield Pike on Lourel Heights Dr.	107	40.	1962	100	3	Ch-Ev	96- 96		63			11- 0-62		
	. 27	Frank Scholtz	0.4 ut cost of Decriteld Pike un Laucel Heights Dr.	100	Gus Mauner	1952	"	•	Ch-Rv	62- 61		30			9-12-52		
	TIME	IAMO															
	Vi- 1	Rella Meter	Columbia Ave., 0.1 at cost of B. J. Rt. 47	110	Rudy Skypala	1954	13	,	Ch- K-	67- 21	,	31		3.5	3- 7-54		
		Alfred Onterman	Arbor Ave., 0.2 mt cast of N. Rost Blvd.	170	Gus Houser	1957	75	٠	Ch-Ku	65- 71	11	30			9-12-5)		
	3	Louis Pelts	Prospect Ave., 0.1 ml sout? of Weymouth Ed.	110	de.	195)	35	•	Ch-Ru	49- 51	60				7-10-53		
	1 4	Frank Russo	H. West Blvd., 0.5 at south of Meywouth Bd.	103	do.	1932	129	5	Ch-Ru	99- 134	163	19	20	8.3	1-29-50	Abandoned fratgatton well.	
	3	Luten Corp.	B. West Blvd., 1.5 ml coutt of Meymouth Ad.	8 5	4 0.	1952	8.0	4	Ch-K-	44 85	160	10	••		3-15-52	fiduses fat well.	
	•	Angelo Amedie	Time and Braveter 2d.	93	Rudy Skypata	1954	,144	,	Ch∈R⊯	118- 144	ا ا	14			6-12-34	Burned well	
	,	A. Fosonacht	W. Oak Bd., 0.4 ml west of B. Meat Blvd.	110	'Gus Mauser	1951	10	•	Ch-Ku	60- 64	20	22			9-29-56		
	•	Vineland State School (Alminut Nd. Colony)	0.2 at north of Atmond Rd, and 0.7 mt went of Rr. Al	95	Mm. Storboff Co.	1974	174	*	Ch Fu	150	253	n	21	11	11- 8-54	2	

Aquifors Ci. Cape May Formation Ci-SF, Cape May or Kirbwood Ch-SF, Cobanegy-Kirbwood LEV, Lower Kirbwood FF, Floop Point Mt, Houset Lower and Venenah KT, Englishtown

Meli numbers are listed by political subdivision and correspond with well numbers in figure 2.

			T	,												
	Hell Hester	Owner and Owner's Well Humber	Location	Altitude of land	Brilling Contractor	Y-07	Jetal death	Planeter	Aqui11-	. Srree.			Ur 11 pes (.	reservices		
		<u> </u>		(feet)			drille- (feet)			(1001)		1d Stat			Date	
				1			l		1]	''"	100	1	rapacity (gpm/ft of draudoun)	1	· ·
-	The state of the s	IRLANDContinued	 	 -	 	 	├	 	 	 					 	
	VL- 9	Visioland State School	0.2 of north of Almond hd.	,,	M. Stockell Co.	1931	193	١.	0.4	l				1	ļ	
	10	(Almost Sd. Colony) Gity of Viscland	end 0.7 at west of St. 47	İ		""	""	1	G-10	(0)	" "	°	"		1934	
		(Re. 8)	1 2000 Marie	n	Layer-Bov York Co.	1963	170	14	Ch-Ev	102- 1	•2 1.20	30	27	34	3-25-66	Test well didlied at this size in fully 1964.
		Oceans-Ellinois (No. 3)	Crystal Ave.	93	Layne-Hew York Co.	1937	120	12 10 0	Ch-Eu	95- 1	15)2	• •	16	70	9-10-37	Industrial well
consite	—— 12 —— 13	do. (Ro. 3)	4	"	4	1940	120	14 00 10	a	91- 1	14 65	20	34	.,	12-13-43	4 0,
		do. (No. 4) Ovens-Illinois (No. 5)	6.	95	40.	1951	144	16 to 10	Ch-ftv	92· 1	17 34	23	21	76	7- 3-51	da.
	15	City of Visoland	Rest Ave. and Outerd St. Onk and Horth Valley Rd.	100	Busher Brilling Co	1941	103	/ 14	Ch-Rw	en: 1	05 53	25	>5	15	7-26-61	do.
		(No. 6)		"	Layne-How York Go.	1950	203	16	Ch-Ru	145- 1	75 1,05	• •	"	19	2-22-57	Public supply well,
	16	City of Vinctons (No. 1)	Peach St. and Nest Ave.	•>	4	1925	160	10	Ch-Kv	(1)- 10	1,03				2- 4-26	d n,
	17	City of Vinciend (Re. 2)	4- .	85		1926	140	26	Ch-Ev	107- 1		,,,	,,	 		
	. 10	City of Viscions	West Ave., seeth of Fresh	8 5	4 -,	1934	140					"	"	"	2- 4-26	. do.
	19	(b .))	Bt.			""	100	26	Ch-Ev	110- 15		"	20	>	8-14-34	4 n.
	.,	Atlantic Ico Mg. Co.	4th and Pear St.	110	Arteston Well Drilling Co.	1952	126	10	Ch-K+	112- 12	4	"			5-11-62	
	20	Sears Boobuch & Co.	Landio Ave. and Rt. 47 traffic circle	# 0	A. C. Schultes &	1931	140	12	Ch-Ev	10)- 1)	4 600	,,	26	20	2-26-51	
	a ,	M. H. Piereen	W. Londin Ave., 0.8 at west	70	Cus Bouser	.,,	93		Ch-Ev	8 5- 9		1.	İ			
	ก	Bernard Bracalelle	of St. 47 W. Chestaut Ave., 0.1 ml	•••	_	ł	i	Ť		•,- •	Ί¨	1.				
			east of Orchard Bd.	115	4 0.	1994	100	,	CP-EP	96- 1	╽ ・	34	٠.		5-1)-54	
	2) 24	Arv System Loundry	319 Wood St.	92	D'Agostino Well	1955	100	•	Ch-Rv	0 3- 10	, ,,					
	*	Grand Theater	Landto Ave., 8.5 ed west of West Blud.	100	Layue-Hew York Co.	1937	136	17 10 0	Ch-Eu	155- 13	250	.15	32	7.4	5-27-37	•
	25	I. C. Schwarzuse	Londis Ave. between 6th	110	Gus Rouser	1990	130		Ch-Eu	107- 12	4,5	,.	l		7-10-50	
	26	Tipeland State School	North of Chrotmut Ave.	100	A. C. Schultos	.,,,		1	J		1	~			7-10-30	· •
	.,	(No. 1)	and cost of Main Rd.	1	and Sons	''''	130	**	Ch-Ev	110- 130	440	20	"	'	1-75-57	
	- "	Timeland State School (No. 2)	44.	100	Mn. Stothoff Co.	1954	192	•	Ch-Ru	146- 166	4	>0	70	.]	4- 2-14	
	*	Vinciand State School (Old See, 1 and 2)	. 60,	100	4- .	1927	310	12	LEV	230- 250		,,			1-25-26	·
	29	Philip Lipson	H. Scowster Sd. and Imple	100	Miton Shoppard	1931	134	.	Ch-Ev	•••	l					These wells shouldned and rapped,
	,,	Alles Johanna	Ave.	1		ł	·~	`	Carke	174- 176	100	"	,	· *	1-31-31	
			E. Londio Ave., 0.1 mt west of Lincoln Ave.	90	Rudy Skypaja	1934	*"	•	Ch-Ru	36- 43	10	1.0	١.	1.7	5. 9.56	
	31	K. 64 47	E. Landin Ave., 0.4 mt east of Lincoln Ave.	80	Vence Skinner	1940	130		Ch-Eu	178- 110	,,	,,	,	.,	. ,	
)2	Fraining School at	South of Landte Ave. and	105	Mn. Stothoff Co.	1931	120	.	_ [l			1		•
		Vineland (No. 1) Training School at	east of this Ms.	1		1		•	Ch-#w	100- 120	1.70	21		ľ	0-74-31	
		Vineland (No. 2)		105	•	1937	145		Ch-Ru	135- 145	250	"	"	7.2	.23-37	
- pro-retain an age		deserci i raine elemente de la composition della	Company of the second s	oursementaling.	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	AND DESCRIPTION OF A	William Street	description (Sec.	siamovicum !	inaterite have the ac-	-		-	SHARE WAS PRINTED AND ADDRESS OF THE PARTY O	animatica la	AND THE PROPERTY OF THE PROPER

TABLE 14. -- RECORDS OF SELECTED WELLS IN COMPERIAND COUNTY, F.J. -- Continued

nquifer: CH, Cape Hay firmation
CH-NW, Cape Hay or Eithwood
Ch-NW, Cohnney-Richwood
LNV, Lover Richwood
FP, Flony Point
HW, Hount Jam's and Wenouch
ET, Englishrou

Molt numbers are listed by political subdivision and correspond with well numbers in figure 2.

Well	Owner and Owner's	. Lesses dem	Altitude	Ortilling					T		Well prefuseaux teat				
Hunber .	Well Humber		of land	Orilling Contractor	Vear De I I I e	lotal depth	Planeter of	Aquite	Screen	.	- 	ell perfora	rame teat		
	1	ļ	(feet)	1	1	detiles (feet)	coning (inches)	1	(feet)	Tiel		Di audium	Specific	Pale	·
		1	1	ŀ	1	```'	[`	1	i	(a)-	level	(fcet)	impacity		Primark a
			ł	1	1	1	1	ı	l	1	(fret)	1	di svilimi)		
TIRELAID-	Continued								İ			 			
V1-34	Vineland Poultry Laboratories	B. Landis Ave., 0.4 at west of Brownter Ad.	103	Gue Mauser	1955	90		Ch-Ru	64-	s4 50	26			114-53	
35	City of Vinetand (No. 4)	East and Michigan Ave.	113	Layne-Hew York Co	1730	190	16	Ch-Ru	137- 1	77 1 .023	70	.10	57	1-17-50	failte supply vell.
36	Geo A. Rossi, formerly Silms Chemical Corp.	S. West Sivd., S.1 at south of Christnet Ave.	65	Vanco Skinner	1952	150	•	Ch-#u	142- 1	200	1,,	10	20	3-18-52	Abandoned tudoetsfat well
37	City of Vinciand (No. 3)	Molant Bd. and S. 7th St.	•5	Layne-Hew York Co.	1930	204	16	Ch-Ew	132- 10	12 ,000	1,7	67	14	3-27-50	Public supply vell.
. 30	City of Vineland (Bond Dept.)	Walnut and Valley Rd.	100	Cue Rouses	1931	109	4	Ch-Ru	": "	, 22	"	,	11	8-30-51	
39	G. R. Rutteon, Jr.	Myrtle Ave., east of Spring 84.	100	4 0.	1934	65	2	Ch-Rw	76- (,,	20			5-22-54	
. 40	Louis Scrivent	E. Chestant Ave., C.) ad- west of Lincoln Ave.	103	40.	1934	60	6	Ch-Ru	44- 1	. m	*		`	5-23-54	
. 41	Herry Broder	New Mill Rd., 1.0 ml south of Landis Ave.	80	Rudy Skypale	1954	•1	2	Ch-E-	75- 0		27			1- 1-34	
42	Herry Mahalian	Welmut Ed., C.3 at east of Rt. 47	•	Oue Rouser	1953	114	•	Ch-R»	104- 11	n 55	20			7-12-53	
43	Ovens-Illinote	B. West Blvd, butween Feeter Ave, and Elser Rd,		Layne-How York Co.	1944	164	10	Ch-Eu	110- 11	450	•	27	24	8-29-44	Desired Industrial well.
44	Hathen Malet	Bloor Rd., O.1 mt cast of Bast Ave.	75	Rudy Skypala	J931 ·	95	2	Ch-Ku	B9- 9	10	12			4-20-54	
45	City of Vineland (No. 7)	Megmeile Sd.	105	Layne-New York Co.	1965	200	16	Ch-Ew	140- 17	000,1	1.0	48	21	2- 3-45	Public supply well.
44	H. Furman	Polermo Ave., 0.1 ml east of Lincoln Ave.	93	Gus Houser	1934	42	٠ ا	CP-En	12- 3	7 30	. 25	3	10	5- 5-54	
47	James Gorl	Venetias 2d., 9.3 mt north of Donto Ave.	75	Vosca Skinner	1930	124	•	Ch-Eu	103- 12	100	14	,	20	0-16-90	trigation well.
Į.	W. L. Berouglis	Itelis Ave. and Pancher Rd.	8 5	Omer	1954	144	•	Ch-Eu	126- 14		.,			1	
49	Louis Bridi	Venetias 8d. and Dante Ave.	••	Youce Ekinner	1948	120	٠	Ch-Ev	118- 120	tno	10	.	1,	4 - 20 - 48	firigation well.
30	Rerry Rose	Cormecopie Ave.	100	Cue Hauser	1754	••		Ch-Ru	76- BI	100	20			2- 4-34	du.
51	Joseph Martino	Trenton Ave. and Union Bd.	85	Vence Shinner	1955	220	٠, ا	Ch-Ru	142- 161	60	14	.,	- 1	4-20-53	đo.
52	leving Schock	S. Orchard Ed., 0.4 ml morth of Sherman Ave,	8 5	Gue Meuser	1953	109	•	Ch-Ru	99- 105	,,	42	,		1-22-55	
	Armstrong Cark Co.	Sherman Ave. and S. West Blvd.	90	Artesian Well. Drilling Co.	1944	162	10	Chiku	119- 155	620	.,	70	,,	. 74.44	Industrial well,
ſ	Treverthen and Repetti	Sherman Ave., 0.1 mt cost of Main Ed.	95	Youce Shimer	1947	128	•	_Ch-P+	110- 126	80	,,			2 - 22 - 47	Greenhouse will.
	Marold Hoyers	R. Sherman Ave., 0.1 at west of Lincoln Sd.	"	40.	1750	127	•	Ch-Ev	115- 12/	160	"	10	·• })-10 20	Tritgetion will,
	S. J. Heetsloht	Lincoln Ave., 0.1 od south of Sherman Ave.	"	4 0. ,	1747	113	•	Ch-#w	115- 135	150	"	10	15	7-10-49	A.,
1	Joseph Halone	Brocon Ave., 0.1 mt west of thin Rd.	100	, Rudy Skypala	1958	125	,	Chille	119- 125	1,	42			i- 2-58	- OM mustymba to cattle 15 todicates - politored
38	City of Vinciand	Edge of old landfill,	"	Vance Shimmer	1947	30	•	Chiku	26 - 30	10				-10-63	Test well, thank to come for matter milliorities.

TABLE 14 .-- RECORDS OF SPLECTED MELLS IN CIRES/RIAND COUNTY, M.J. -- Continued

Aquifer: Ci, Cape Nov Formation Ci-CV, Cape Nay or Elrhund Ci-CV, Cohansey-Elrhund INV, Inver Kirhund PP, Piney Point MY, Hount Inseri and Wennah EI, Englishtown

Well numbers are fixed by political subdivision and correspond with well numbers in figure 2.

 	Orner and Owner's Well Humber	Location	Altitude of land	Drilling Contractor	Veer Ortifed	Tetal	Diserter	Aquifer	Screen setting		v.	II perfor			· · · · · · · · · · · · · · · · · · ·
			queface (feet)			depth deftiled (feet)	(inchra)		(tert)	14±1:1 (ppm)	Statte vates level (feet)	Heardown (feet)	Specific copicity (gam/st of denudous)	Pate	Franks
LITTLAND-	-Continued					 				 		ļ			
VL-59	Russell Jordan	Sheridan Ave., 8.2 at west of Hele Sd.	70	Tonco Skinner	1954	102 -	٠.	Ch-Ru	92- 90	15	1.		1.9	0-11-34	QM montynim in table 15 tudicates pol
60	Stella Smolowich .	Bt. 47, 0.7 of south of Sheroon Ave.	93	40.	1954	132	•	Ch-E-	122- 120	50	45			0-12-54	veter.
41	Southern Onygon Co.	6. West Blvd., 1.3 ml couth of Sherman Ave.	33	Tonco Silanos	1953	100	٠	Ch-Ru	48 - 100	n		,	15	3- 0-51	
62	Yon Dyk Bros.	Miliville-Mays Londing Sd. west of Snyder Ave.	75	Gue Houser	1953	95	•	Ch-Eu	85- 95	20	34			3- 9-33	·
		·													
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	(Braulta la milligroup per liter except respondunts, aperific conductance, pH, and coinc)																						
Well Re.	Motor-bearing Perantion or Aquifer	Series Setting (feet below land oveloce)	Date of Collection	(3.)	\$111ce (\$10 ₂)	# (26).	i (i)	Caleius (Ca)	(\$) (\$)	200 (30)	Pounts (E)	Bitersonere HCO ₃)	\$4) face \$400	Chiene (C:)	17	Si trece (30)	Disseived Soliss	Nordiren on CoCO	Seetific Computance :	r=	10.10	Carmo Maniae	Remarks
MAU	ICS STARY ADMINISTS.		1	}								l	Ì]		H		l				
JE - 10	Cape Noy	78	1-39-43	13	0.3	1.5	.29	0.0	1.0	2.4	0.2	,	2.1	5.0	•.•	0.0	22	•	14	5.4	,	-	
13	Lower Elskuped	264-274	1- 9-63	13	n	.••	.00	24	4.1	2.6	2.4	-	0.4	3.0	.1	.,	167	8 1	177	0.1	. •		<u>,</u>
16	50.	243-263	1- 4-63	14	44	1.8	.00	"	1.3	4,0	2.0	34	0.0	3.0		.•	122	30	171	4.0	30	"	1
19	Do. Do.	242-210	11-29-43	14	**	1.3	.67	22	2.2	10	3.0	*	7.0	2.1	1 .3		133	64	175	7.7	"	l	1
22		203-313	1- 0-63	13	30	.10	.00	22	3.2	9.4	3.8	9 i 85	".	2.4			141	64	165	7.4	,	•	
-	 .				"	.10		"	4.1	3.3	2.0	"	•.1	4.2	.1	.,	۱۳	75	'"	7.9	,	,	USCA vater quality uta.
MIT	71LLB	ŀ										•				·	H		Ì				
a-)	Cohancey-Rickwood	110-199	9- 457			. 30			•			٠		5.0			40	19 ,	.:	3.5		,,	Bousee of analysis, A. G. Schulten A Sono.
11	Etripmed	160-100	3-22-63	13	29	1.7	.00	7.2	1.0	3.0	1.0	24	•	3.0			~	24		6.2	•	22	Analysts by Booth, Gotte:
12	Lower Kirkwood	345-200	3-14-63	14		1.4	.03	9.6	1.5	3.5	0.8	, ×	9.6	3.4))	+-	6.1	15	.,	• • • • • • • • • • • • • • • • • • • •
16	Cohonery-El rkwood	105-136	2-25-63		12			1.6	.3				13	7.0		'	20	•	50	4.1		۱	Amalyata by Rets labo.
22	Lover Kirkwood	335-345	7-16-63	1)	42	1.9	.00	15	1.3	,	1.0		7.0	3.0			112	40		4.6	•	٠,,	Analysia by Booth, Gatter
.,	Cohonory-Eighwood	161-191	8- 3-44	1)	0.0	. •••	.00	1.6	.,	1.5	0.3		1.4	2.9	.0		,,	,					and Blets
25	Lover Eirkwood	320-330	6-23-63		23	1.4	.00	2.4	1.0		2.0	,		3.0			"		24	5.0	3	31	
,,	Cohenery-Eirkungel	95-101	11-28-54		7.0			1.4	1.0	3.0		٠,		7.0			24			,,	,		Analysis by Hungerfurd on
33	Cape May	67-23	9-20-53		20			4.4	2.9	1		40	16	6.0			67	20		4.7	,	13	Terry.
870W	CREEK TOMBELLP		l			İ			1	1				- 1						1			
c- 6	Cohonory-Kirkwood	70- 75	0- 7-42			. 30]			,,				,,,		9.5		40	
•	Finey Point	147-173	4-14-6)	14	50	.99	.00]	1.,		3.5	164	0.2	4.0	0.3		204	"	292	,,	Ϊ,	,	
12	Cohonory-Eirhvood	64- 72	. 0- 7-62			.00			[.,				.,		,,		33	
v.,				ı			1	4.	- 1								- 1			.			
	Cohamory Elickwood	136-144	1-26-63			4.0															ı		
	6	130-170	3-17-34		9.0	. 70		•.4	•.5	3.0		17 2.4	7.0	3.0			"	-	35	3.1		17 34	Anglysts by Hungerford an
				- 1	- 1	ľ	ł			- 1								١ ` ا	- "	· '	١.	,,	Terey.
15	- .	143-175	10- 2-63	"	•.•	.00	.00	3.2	•. '	4.0	.•	•	.0	•.4	-1	15	*	- 14	"	5.0	,	4)	·
"	5-	117-124	3- 3-33		7.0	10		2.4	3.6	•. 3		1.3	۰۰	"				"		4.1		76	Analysis by Hongerford on Treey,
23	30 .	63-103	11- 1-34	[€.0	.10		10				· [.0	44			[14		4.2	- 1	70	, Po
*	▶.	110-130	1-30-34		- 11	1.0	.03	7.4	9.1			۱ ،	۰	"				62		3.0	•	34	Dec.
30	Do.	36- 43	1- 7-6)	12	4.7	1.0	.10	9.2	3.6	7.0	2.4	''	۰	"	- 1	*]	12	**	190	3.9	•	40	
*	bo. ·	90-100	7- 7-49		3.0	13	. 10	"				272	54	>0				132		4.3	•	**	"Med a chemical mins" Analysis by Hongeriord and Terry
37	Po.	132-162	10- 2-63	35	9.2	.00	.00	4.0	3.4	7.5	1.5	,	.0	10		,,	n	,,		3.0	٠,	40	•
43	₽• .	140-170	1905	15	4.2	.00	.00	1.0	1.7	3.0	1.1	•	۰۰.	٠.٠			,,			6.4	-,		
"	1 0.	119-125	1- 7-63	"	7.4	1.7	.04	3.2	3.6	7.0		"	. 0	●.●	.1	30	**	"		3.9	•	26	Alum, O.I ppm.
34	Sm.	26- 30	1-10-63	14	3.1 2)-piece	3.3	.34	21	"	144	4.3	270	۰۰	210	۰۰]	.•	***	333 Marian (Sept.	1.440	3.2 *********	10		Alm. 4.4 pps.

Well UD-21: Bridgeton Shopping Center Location: Approximately 0.3 mile southwest of Carlis Corme 0.3 mile northwest of Bridgeton boundary line. This is a composite log adapted from the driller cable-tool samples of a 4-inch pilot hole, and and gamma-ray logs of 6-inch rotary hole. Altitude: 90 feet	-1 -
Thickness (feet)	Depth (feet)
Sand and gravel	ð. 7.
embedded quartz grains	15 22
lignite 8 Clay, gray, tough; contains embedded quartz grains	30 141
Sand, orange, very fine- to coarse-grained, poorly sorted, clean	58
Hardpan	84 85 95 100 113 120
Clay, black and fine sand in layers	135
Well Vi-10: City of Vineland, Owner's Well No. 8 Location: Mill and Almond Rd., Vineland Remarks: This is a composite log adapted from the driller's and electric log, and a field description of rota samples of Well No. 8 and of a test well both dri Layne-New York Co. Inc. at the same location. Altitude: 73 feet	- do + ch
Thickness (feet)	Depth (feet)
Sand, light yellowish-gray, clayey, fine to coarse- grained, with streaks of yellow and white sandy clay. 27 Sand and gravel, grayish-yellow to brownish-orange, mostly coarse-grained quartz with streaks of yellow	27
Sand and gravel, clayey; reddish and brownish-orange ironstained fine- to coarse-grained quartz with	51
streaks of yellow and white clay	96 110

Table 16.--Selected Logs of Wells in Oumberland County, 11.0.

Well V1-10 City of Timeland, Owner's well No. 8 (Continued)

	ntinued)	
brown fine-grained sand white; and dark grange to	Thickness (feet)	Depth (feet)
coarse-grained Sand and since	10 6	120 126
Sand roads streaks of clay manufactured yellowish	14	140
Sand, reddish-brown, streaks of clay near the bottom Clay, dark-gray, sandy, micaceous	38 8 14	178 186 200

Well Vi-15: City of Vineland; well No. 6 Location : Valley Ave. and Oak Road Remarks :

Driller's log by Layne-New York Co., Inc. Altitude :

Top soil Sand, coarse-grained and gravel Clay, sandy and gravel	Thickness (feet)	Depth (feet)
Sand, coarse-grained and gravel Clay, sandy and gravel Clay, sandy and sand streaks Clay, red, sandy Sand, gravel and some clay Clay, blue, tough Sand, with some yellow clay streaks Sand, coarse-grained Clay, blue Clay, and sand streaks	48 10 20 5 25	2 50 60 80 85 110 123 135 175 180 203

Location:	City of Vineland, Owner's well No. 7
Remarks	780 feet south of Magnolia Rd. and 2,000 feet This is a company.

This is a composite log adapted from the driller's

log, electric and gamma-ray logs, and field descriptions of rotary ditch samples of a test well and the owner's well No. 7 drilled by Layne-

New York Co., Inc. at the same location. Altitude : 105 feet

	Thickness (feet)	Depth (feet)						
Sand, clayey, dirty yellow, mostly fine-grained	26 18	717 56						

Well Vi-45: City of Vineland, Owner's well No. 7 (Continued)

	Thickness (feet)	Depth (feet)
Sand, light yellow, fine- to coarse-grained contained small ironstone fragments	. 32	7.
Clay, mottled orange and light gray, silty	· 14	76 90 100
Sand and gravel, very clayey, brown and orange	. 30	130
orange, contains some sandy clay streaks	. 56 les 22	186 208

Well Vi-51:

J. Martino, Irrigation well Southwest corner of the intersection of Union Road and Location :

Trenton Ave., E. Vineland

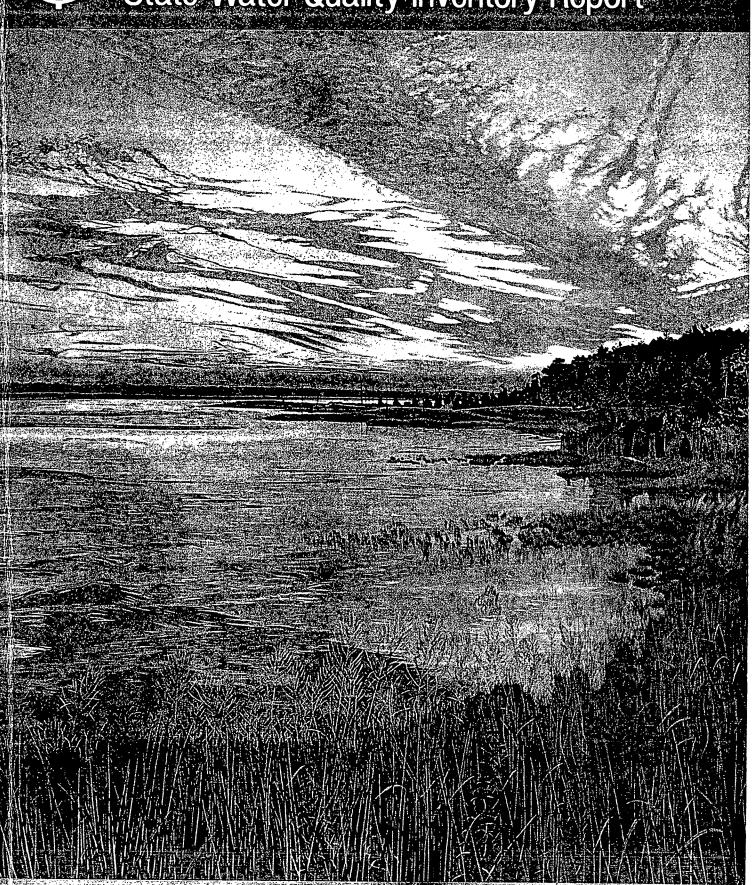
Remarks : Driller's log by L. Varesio

Altitude : 85 feet

	Thickness (feet)	Depth (feet)
Sand and clay, buff Clay, buff Sand, cemented in buff clay Clay, buff, hard Sand, buff, cemented Sand, fine-grained Ironstone Clay, buff and gray, hard Gravel, gray Clay and sand, gray Sand, gray Clay, gray Sand and clay, gray	40 10 20 10 10 3 2 47 8 9 17 35	40 50 70 80 90 93 142 150 159 168 185 220



New Jersey 1986 State Water Quality Inventory Report



र्वे विषय प्रचार के महिल्ला के विषय के बार के बार के बार के बार के किए के बार के किए के बार के किए के बार के क

N.J.P.D.E.S. DISCHARGE INVENTORY

WATERSHED: MAURICE RIVER

DISCHARGER NAME	NJPDES +	RECEIVING WATERS	MUNICIPALITY/COUNTY	DISCHARGE TYPE
Pioneer Metal Finishing, Inc. Shield Alloy Corp. Owens-Illinois Inc. Vineland City ElecHoward Down Owens-IllSchott Process Sys. Inc. Progresso Quality Foods West Co. Wheaton Glass Co. Kerr Glass Mfg. Corp. Unimin Corp. NJ Selica Sand Co. Ownes-Ill. CorpMillville Port Norris Oyster Co., Inc. Geo. O. McConnell Co. Delaware Bay Oyster Co. Leesburg St. Prison	0025658 0004103 0004499 0032182 0005304 0004880 0023744 0004171 0005398 0004405 0004618 0005339 0026051 0029581 0029581 0021989	Scotland Run Maurice River Ditch to Maurice River Maurice River Parvins Brook Trib to Par. Wheaton Prop. Pond Petticoat Stream Maurice River Dividing Creek Manumiskin River Muskie River Maurice River Maurice River Maurice River Maurice River Riggins Ditch	Franklin Twp./Gloucester Newfield Boro/Gloucester Vineland City/Cumberland Vineland City/Cumberland Vineland City/Cumberland Vineland City/Cumberland Millville City/Cumberland Millville City/Cumberland Millville City/Cumberland Millville City/Cumberland Millville City/Cumberland Millville City/Cumberland Millville City/Cumberland Maurice R. Twp./Cumber. Commercial Twp./Cumber. Commercial Twp./Cumber. Commercial Twp./Cumber. Commercial Twp./Cumber. Commercial Twp./Cumber. Maurice Twp. River/Cumb	Ind./Comm. Ind./Comm. Ind./Comm. Ind./Comm. Ind./Comm. Ind./Comm. Ind./Comm. Ind./Comm. Ind./Comm. Ind./Comm. Ind./Comm. Ind./Comm. Ind./Comm. Ind./Comm. Ind./Comm. Ind./Comm.

IND COMM IS INDUSTRIAL/COMMERCIAL



Friday December 14, 1990

Part II

Environmental Protection Agency

40 CFR Part 300
Hazard Ranking System; Final Rule



TABLE 3-6.-HYDRAULIC CONDUCTIVITY OF GEOLOGIC MATERIALS

Type of material	Assgred hydraufic gonductivity of (cm/sec)
Clay, low permeability till (compact unfractured till); shale: unfractured metamorphic and igneous rocks Losses; sity clays; sediments that are predominantly sits; moderately permeabile till (fine-grained, unconsolidated till, or companies tractures); low permeability bisestones and dolomites (no karst); low permeability bisestones (no karst); low permeability bisestones (no karst); low permeability bisestones (no karst); low permeability bisestones (no karst); low permeability bisestones (no karst); low permeability bisestones (no karst); low permeability bisestones (no karst); low permeability bisestones (no karst); low permeability bisestones (no karst); low permeability bisestones (no karst); low permeability bisestones (no karst); low	pact till with gracus and
metamorphic rocks	ly fractured); ared igneous
Gravet, clean sand; highly permeable fractured igneous and metamorphic rocks; permeable basalt; karst limestones and dolomites	10.1

[.] Do not round to nearest integer.

TABLE 3-7.—TRAVEL TIME FACTOR VALUES *

	Thickness of lowest hydraulic conductivity layer(s)* (feet)			
thydraulic conductivity (cm/sec)	Greater then 3 to 5	Greater Den & to 100	Greater then 108- to 500	Greater Then 500
Greater than or equal to 10 ⁻⁹	26 35 15 5	36 25 15 5	26 15 5	25 15 5 1

[&]quot;It depth to aquiter is 10 feet or less or il, for the interval being evaluated, all layers that underlie a portion of the sources at the site are learst, assign a value of

Determine travel time only at locations within 2 miles of the sources at the site, except if observed ground water contamination attributable to sources at the site extends more than 2 miles beyond these sources, use any location within the limits of ti is observed ground water contamination when evaluating the travel time factor for any aguifer that does not have an observed release. If the necessary subsurface geologic information is available at multiple locations, evaluate the travel time factor at each location. Use the location having the highest travel time factor value to assign the factor. value for the aquifer. Enter this value in Table 3-1.

3.1.2.5 Colculation of potential to release feator value. Sum the factor values for net precipitation, depth to aquifer, and travel time, and multiply this sum by the factor value for containment. Assign this product as the potential to release factor value for the aquifer. Enter this value in Table 3-1.

3.1.3 Colculation of likelihood of release fuctor cutegory value. If an observed release is established for an aquifer, assign the observed release factor value of 550 as the

likelihood of release factor category value for that aquifer. Otherwise, assign the potential to release factor value for that aquifer as the likelihood of release value. Enter the value assigned in Table 3-1.

3.2 Waste characteristics. Evaluate the waste characteristics factor category for an aquifer based on two factors: toxicity/mobility and hazardous waste quantity. Evaluate only those hazardous substances available to migrate from the sources at the site to ground water. Such hazardous substances include:

- Hazardous substances that meet the criteria for an observed release to ground water.
- All hazardous substances associated with a source that has a ground water containment factor value greater than 6 (see sections 2.2.2, 2.2.3, and 3.1.2.1).
- 3.2.1 Toxicity/mobility. For each hazardous substance, assign a toxicity factor value, a mobility factor value, and a combined toxicity/mobility factor value as specified in the following sections. Select the toxicity/mobility factor value for the aquifer being evaluated as specified in section 3.2.1.3.

3.2.1.1 Toxicity. Assign a toxicity factor value to each hazardous substance as specified in Section 2.4.1.1.

3.2.1.2 Mobility. Assign a mobility factor value to each hazardous substance for the aquifer being evaluated as follows:

- The any hazardous substance that meets
 the criteria for an observed release by
 chemical analysis to one or more aquifers
 underlying the sources at the site, regardless
 of the aquifer being evaluated, assign a
 mobility factor value of 1.
- For any hazardous substance that does not meet the criteria for an observed release by chemical analysis to at least one of the aquifers, assign that hazardous substance a mobility factor value from Table 3–9 for the aquifer being evaluated, based on its water solubility and distribution coefficient (K_a).
- If the hazardous substance cannot be assigned a mobility factor value because data on its water solubility or distribution coefficient are not available, use other hazardous substances for which information is available in evaluating the pathway.

TABLE 3-8.—GROUND WATER MOBILITY FACTOR VALUES .

	<u> </u>	Distribution coefficient (K _d) (ml/g)			
Water solubility (mg/f)	Karst	≤ 10	> 10 to 1,000	>1,000	
Prosent as figuid b			0.01	0.0001	
Greater than 100		1 ;	0.01	0.0001	
Greater than 1 to 100	0.2	02	0,002	2:10-1	
Greater Pren 0.91 to 1	2x10	2:10		2:10	

Do not round to noarest integer

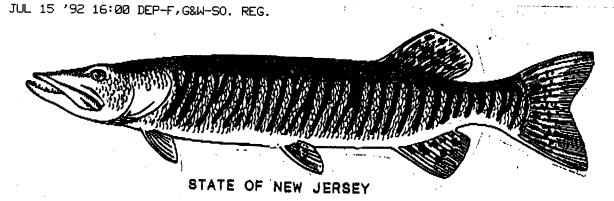
^{*} Consider only layers at least 3 feet thick. Do not consider layers or portions of layers within the first 10 feet of the depth to the aquiller.

Use If the hazardous substance is present or deposited as a liquid.

^{*} Use if the entire interval from the source to the squifer being evaluated is karst.

				
CONTROL NO.:	DATE:	1.		TIME:
	Thurs	16 July	1992	0845-0900
DISTRIBUTION:		0 1		
DISTRIBUTION.				
BETWEEN:		OF:		PHONE:
Paul Horner		Vineras	na .	+ 1 ((()) () = (
raul Horner		Water	Vepaumen	PHONE: 1 (609) 4056
AND:				·
Corry T. Platt				(NUS)
DISCUSSION:	***			
	0			, , ,
Paul said that Pul	the de	sply Wel	16 # 1 [PA	och & West Ave), #2
(Peach & West Ave), #3 (Wes	t Ave 1	Sorth of Per	ich) #4	(East of Michigan Ave),
and #6 (Dak & North Val	lley Ro	od) are	the clos	sest to O.I. Kimble
and probably within 3,				
Water Wello are servin	a 60%	a Vin	eland's t	total population and
the about 95% of the				
is tapped from the C				
mixed at any point.		-		
mixed before with other	groun	devater	before dist	hibution.
The remest well	for dr	inking p	reuposes	is found on the
Kimble Plant Ste. Th		-		, .
except for emergency pu	uprses.	The o	hinking u	later on-site is
pumped by the site				
•		hve rear	rest well	ls are as follows:
#1 Peach & West Ave	101-	151 ft.		0
#2 Peach of West Ave				
#3 West (g Peach	118-	150 04		
			· · · · · · · · · · · · · · · · · · ·	
#4 Cook & Michigan A		•		
#6 Oak 1 N. Valley Rd	145	-175ft.		
	7.72.7.7	-		
<u></u>				

NUS CORPORATION AND S	UBSIDIARIES		(3498))	TELECON NOTE
20.720.10	T		T =-		
CONTROL NO.:	DATE:			ME:	
	Wed	15 July 199	2	1505	
DISTRIBUTION:					· · · · · · · · · · · · · · · · · · ·
*					
BETWEEN:		QF: , O	•	PHONE:	
$\mathcal{U} = \mathcal{U} \times \mathcal{U}$		Southern Keg	ion		
Hugh Conberry		NJDEPE Fresh	water Fisheri	eo 1 (6	09 629-4950
AND:					
CORRY T. PLATT.					(a¢)
CORPY 1, 10411.		· · · · · · · · · · · · · · · · · · ·			(NUS)
DISCUSSION:					
Huch mind that	+ ho userel	d lax an	· · · · · · · · · · · · · · · · · · ·	time.	met the
Hugh said that	, re would	2 for me	injorma	ion ac	Tous The
fish populations in	The follow	owing water	rways: E	ine Bran	oh.
•	•	•			
Blackwater Branch,	Manuce K.	ver above	and beli	w Unio	n dake.
•		,		_	, ,
The populations were	- estimated	d by elect	ro-sheck	. Mugh	Soud That
		=			
he would not be	war ru	yeve me	rycoma	war reg	waing
the flow rate of	any of Th	te above	water way	p but	the
Wild & Scenic River	Departm	ent may	have sor	ne enform	nation
				•	
regarding the Maur	ue kiver.				
He mentioned	that the	Black Water	Rangel	Maria	Rinar
- 11e men 10reac	i viac inc	Cac Laure	vianca,	· iouruxe	
above and below a unsure of the Pine	nien dake, &	Union Lake	. were ,	fisheries	but was
			-		
unsure of the Pine	Branch.				
ν					
			· · · · · · · · · · · · · · · · · · ·		····
·					
			· · · · · · · · · · · · · · · · · · ·		
		· · · · · · · · · · · · · · · · · · ·		•	
ACTION ITEMS:			•		
-					
	······································				
-				·	·
	·····				
					•



DEPARTMENT OF ENVIRONMENTAL PROTECTION

TELECOPIER DATA

TRANSMITTAL SHEET

DOCUMENT SENT TO:
SENDING ADDRESS: Haliburton NUS
DATE: 7/15/92 NUMBER OF PAGES WITH COVER: 5
CONTACT PERSON TO CONFIRM RECEIPT OF DOCUMENT:
NAME: Hugh M. Carberly ELEPHONE #: 609-629-4950
DEP OFFICE: Burcau of Freshwater Fishener
OTHER COMMENTS:

This is all the information I had on flow rates. JUL 15 '92 16:00 DEP-F,G&W-SO. REG.

DIVISION OF FISH, GAME & SHELLFISHERIES

Electrofishing Data

	Electioning Data	
STREAM MAURICE RIV	ER_ DRAINAGE MAL	ARICE E. DATE 5/11/7
LENGTH OF STRETCH 100	oo yos, mean width 60	ET: MEAN DEPTH 36 IN
	DISSOLVED OXYGEN9	
TYPE OF BOTTOMSAI		3
LOCATION ABOVE UN	ion lake	
TOWNSHIP	COUNTY C	1MBERLAND
	Fish Collected	
Species	Number	Weight, No.
AMERICAN EZL	با	2.45
CHOIN PICKEREL	2	1.75 ¥
CARP		3,25
WHITE SUCKER	25	75,00 ₩
BROWN BULLHEAD	3	1.75
BANDED KILLIFISH		
WHITE PERCH 47"	10	2.25
REDORENT SWASH 75"	3	0.30
REDOREAST SUNFISH (5"	6	0.15
Phankaloged >5"	Z	0.35
PUMPKINSEED < 5"	6	0.15
BLUESILL >5"		0,20
BULEGILL < 5"	4-	0.15
LARGEMOUTH BASS >9"	3	2.70
LARGEMOUTH BASS 49"	6	0.65
YELLOW PEACH >7"	Z	0.75
יידן אטאפק שטושץ	15	3.15
REMARKS		

BFL-1 SPECIFIC CONDUCTANCE = 100 jumbos/cm * ESTIMATED WEIGHT

LAKE ELECTROFISHING RIC

The first that the second control of the control of

DIVISION OF FISH, GAME & SHELLFISHERIES

Electrofishing Data

STREAM MAURICE R	er drainage mourice R. date 7/27/7
LENGTH OF STRETCH	00 ft. mean width 60 ft. mean depth 48 11.
TEMPERATURE 80°F	DISSOLVED OXYGEN 8.6 mg/l ph 7.9
	& GRAVEL
LOCATION BELOW UN	N LAKE DAM ("GATEHOLE")
TOWNSHIP MILLVILLE	COUNTY CUMBERLAND

Fish Collected

10 22	6.85 0.75
22	075
	U, 75
١	1,00
7	0.15
4	<0.06
	<0.06
10	13,50
2	1,00
6	0.15
32	4.10
2	0.15
	0.45
2	0.30
<u> </u>	0.10
3	0.45
2	1.35
6	0.10
26	2,15
	0.25
	4 1 10 2 6 32 2 7 2 6 3 2 6

BFL-1 SPECIFIC CONDUCTANCE: ZZO MICROMHOS/CM

GRADIENT: SUIGHT

4

B. Tributary and Outlet (see Appendix B for flow data):

1. Tributaries -

	<u>Name</u>	orainage area(km²)	(m ³ /sec)
	A(2) Maurice River	499.9	7.95
,	B(1) Mill Creek	39.1	0.48
	Minor tributaries and immediate drainage -	21.8	0.31
	Totals	560.8	8.74
2.	Outlet - A(1) Maurice River	564.6	8.98

C. Precipitation:

- 1. Year of sampling: 104.7 cm.
- 2. Mean annual: 105.3 cm.

Appendix B

TRIBUTARY FLOW INFORMATION FOR NEW JERSEY

96/94/76

SEP

DEC

7.70 0.37 0.24 8.98 7.95 0.48

0.31

LAK	E C	ODE	3422
-----	-----	-----	------

UNION LAKE

TOTAL DRAINAGE AREA	OF LAK	E (SU KM)	204+1	•				
SUB-DRAINAGE TRIBUTARY AREA (SO KM)	MAL,	FEB	MAR	APR	MAY	NORMAL IZ JUN	ZED FLOWS JAJL	(CMS) AUG

3422A1 3422A2 3422B1 3422ZZ	564-6 499-9 39-1 25-4	10.25 9.06 0.51 0.31	11.19 9.88 0.57 0.37	13.05 11.55 0.74 0.48	12.26 10.85 0.57 0.37	9.00 0.62 0.40	6.74 0.57 0.34	5.58 0.34 0.23	6.26 9.48 9.25	6.57 8.34 0.22	5.41 0.37 0.24	6.94 0.40 0.26
--------------------------------------	--------------------------------	-------------------------------	-------------------------------	--------------------------------	--------------------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

SLIMMARY

TOTAL DRAINAGE AREA OF LAKE	=	564.6 564.4	TOTAL FLOW IN = TOTAL FLOW OUT =	1 05.01 107 . 97
SUM OF SUB-DRAINAGE AREAS	-	304·4	Inthe iffer on -	

HEAN MONTHLY FLOWS AND DAILY FLOWS (CHS)

TRIBUTARY	HTMON	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLON	DAY	FLOI
3422A1	7	73	9.231	21	7-362				
J-12-14	8	73	5.097	12	4.701				
	9	73	5.069	16	7.532				
	10	73	4.332	18	3.653				
	îi	73	5.040	ĴΟ	5,465				
	12	73	10.052	8	4.304				
	1	74	11.638	12	14.045				
	Ž	74	0.750	10	8.467	26	8.467		
	3	74	10.052	10	8.750	22	14-215		
	4	74	13,281	21	11.044				
	Ś	74	8.891	13	10.392	•			
	6	74	6.230	22	5.465				
3422A2	7	73	8.184	15	6.541				
JACCHE	B	73	4.531	12	4.163				
	9	73	4.502	16	6.683				
	10	73	3,851	18	3.228				
	ĺĺ	73	4.446	10	4,842				
	12	73	8.891	8	3.823				
	14	74	19.307	12	12.431				
	•	74	7.730	10	7.504	26	7.504		
	2 3	74	8,891	10	7.730	22	12.573		
	4	74	11.751	21	9.769				
	· 5	74	7.872	13	9.203				
	6	74	5.522	22	4.842				
•	0		-J-J-L-L						

The Complete Handbook of Hazardous Waste Regulation

A Comprehensive, Step-by-Step Guide to the Regulation of Hazardous Wastes Under RCRA, TSCA, and Superfund

Travis Wagner

PERRY-WAGNER PUBLISHING CO., INC.

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Brunswick, Maine

Washington, D.C.

Appendix II

EPA-Listed Hazardous Wastes

EPA weste number **Hazardous waste Hazard** code Hazardous Waste From Nonspecific Sources F001 The following spent halogenated solvents used in degreasing: **(T)** tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chlorinated fluorocarbons, all spent solvent mixture/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. F002 The following spent halogenated solvents: tetrachloroethylene, **(T)** methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, odichlorobenzene, and trichlorofluoromethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more of the above halogenated solvents or those listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. F003 The following spent nonhalogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol; all spent solvent mixtures/blends containing, before use, one or more of the above nonhalogenated solvents, and, a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. F004 (T) The following spent nonhalogenated solvents: cresols and cresylic acid, nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by

'Hazard codes are C = corrosive, H = acutely hazardous, I = ignitable, R = reactive, and T = toxic.

EPA	waste number Hazardous waste i	lazard code
	volume) of one or more of the above nonhalogenated solve or those solvents listed in F001, F002, and F005; and the st bottoms from the recovery of these spent solvents and spen solvent mixtures.	111
F00.5	The following spent nonhalogenated solvents: toluene, mether thyl ketone, carbon disulfide, isobutanol, pyridine; all spensolvent mixtures/blends containing, before use, a total of terpercent or more (by volume) of one or more of the above nonhalogenated solvents or those listed in F001, F002, and F004; and the still bottoms from the recovery of these spent solvents and spent solvent mixtures.	
F006	Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3)zi plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc, and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum	nc
F019	Wastewater treatment sludges from the chemical conversion coating of aluminum	(T)
F007	Spent cyanide plating bath solutions from electroplating operations (except for precious metals electroplating spent cyanide plating bath solutions)	(R,T)
F008	Plating bath sludges from the bottom of plating baths from electroplating operations for which cyanides are used in the process (except for precious metals electroplating plating bath sludges)	(R,T)
·009	Spent stripping and cleaning bath solutions from electroplatin operations for which cyanides are used in the process (except for precious metals electroplating spent stripping and cleaning bath solutions)	
010	Quenching bath sludges from oil baths from metal heat treating operations for which cyanides are used in the process (except for precious metals heat-treating quenching bath sludges)	(R,T)
011	Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations (except for precious metals heat treating spent cyanide solutions from salt bath pot cleaning)	! (R,T)
012	Quenching wastewater treatment sludges from metal heat treating operations for which cyanides are used in the process	(T)

EPA was	ste number	Hazardous waste	Hazard co	de¹
		cious metals heat treating quenching atment sludges)		
F024	ends, tars, and of chlorinated a from one to five (Does not inclu dessicants, was	g but not limited to distillation residue reactor clean-out wastes from the prod aliphatic hydrocarbons, having carbon of the tribing free radical catalyzed proces de light ends, spent filters and filter aid tewater, wastewater treatment sludges, astes listed in 261.32)	uction content ses s, spent	(Т)
F020	chloride purific use (as a reacta formulating pro intermediates u not include was	wastewater and spent carbon from hydation) from the production or manufacent, chemical intermediate, or compone ocess) of tri- or tetrachlorophenol or of sed to produce their pesticide derivatives from the production of Hexachlorophenol)	turing nt in a es (Does	
F021	chloride purific use (as a reacta	wastewater and spent carbon from hydration) from the production or manufactor, chemical intermediate, or compone ocess) of pentachlorophenol or of interests derivatives	turing nt in a	(11
F022	chloride purific	wastewater and spent carbon from hydration) from the manufacturing use (as ical intermediate, or component in a ocess) of tetra-, penta-, or hexachlorob conditions	a	(H
F023	chloride purific equipment prev manufacturing component in a tetrachlorophel used only for the	wastewater and spent carbon from hydration) from the production of material viously used for the production or use (as a reactant, chemical intermedia a formulating process) of tri- and nols (Does not include wastes from equiple production or use of hexachloropher 2,4,5-trichlorophenol)	te, or	(H
F026	chloride purific equipment pre- reactant, chem	wastewater and spent carbon from hydration) from the production of material viously used for the manufacturing use ical intermediate, or component in a ocess) of tetra-, penta-, or hexachlorobic conditions	s on (as a	(1)
F027	D 1.1	sed formulations containing tri-, tetra-,		(H

EPA waste number

Hazardous waste

Hazard code¹

used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead

Coking

K060	Ammonia still lime sludge from coking operations	(T)
K087	Decanter tank tar sludge from coking operations	(T)

Commercial Chemical Products

The following P code wastes are considered acutely hazardous.

P023 Acetaldehyde, chloro-

P002 Acetamide, N-(aminothioxomethyl)-

P057 Acetamide, 2-fluoro-

P058 Acetic acid, fluoro-, sodium salt

P066 Acetimidic acid, N-[(methylcarbamoyl)oxy]thio-, methyl ester

P001 3-(alpha-acetonylbenzyl)-4-hydroxycoumarin and salts, when present at

concentrations greater than 0.3%

P002 1-Acetyl-2-thiourea

P003 Acrolein

P070 Aldicarb

P004 Aldrin

P005 Allyl alcohol

P006 Aluminum phosphide

P007 5-(Aminomethyl)-3-isoxazolol

P008 4-aAminopyridine

Ammonium picrate (R)

Ammonium vanadate

P010 Arsenic acid

P012 Arsenic(III) oxide

P011 Arsenic (V) oxide

P011 Arsenic pentoxide

P012 Arsenic trioxide

Arsine, diethyl

P054 Aziridine

Barium cyanide P013

Benzenamine, 4-chloro-P024

Benzenamine, 4-nitro-

Benzene, (chloromethyl)-

P042 1,2-Benzenediol, 4-[(1-hydroxy-2-(methyl-amino)ethyl)]-

Benzenethiol P014

P028 Benzyl chloride

Beryllium dust

P016 Bis(chloromethyl) ether

P017 Bromoacetone

Brucine P018

Calcium cyanide P021

P123 Camphene, octachloro-

Carbamimidoselenoic acid

Carbon bisulfide P022

P022 Carbon disulfide

U187 Phenacetin

```
U143 Lasiocarpine
   11144 Lead acetate
  11145 Lead phosphate
  11146 Lead subacetate
  11129
         Lindane
         Maleic anhydride
         Maleic hydrazide
         Malononitrile
  11150
         Melphalan
  11151
         Mercury
 11152 Methacrylonitrile (I,T)
        Methanamine, N-methyl- (I)
        Methane, bromo-
        Methane, chloró- I,T)
 110.45
        Methane, chloromethoxy-
        Methane, dibromo-
        Methane, dichloro-
        Methane, dichlorodifluoro-
       Methane, iodo-
       Methanesulfonic acid, ethyl ester
11119
       Methane, tetrachloro-
       Methane, trichlorofluoro-
11153
       Methanethiol (I,T)
       Methane, tribromo-
(1044
       Methane, trichloro-
11121
       Methane, trichlorofluoro-
       Methanoic acid (C,T)
       4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a- tetrahydro-
1154
      Methanol (I)
11155
      Methapyrilene
247
      Methoxychlor
1154
      Methyl alcohol (I)
4029
      Methyl bromide
1186
      1-Methylbutadiene (I)
      Methyl chloride (I,T)
      Methyl chlorocarbonate (I,T)
4156
      Methyl chloroform
1226
1157
      3-Methylcholanthrene
      4,4'-Methylenebis(2-chloroaniline)
132 2,2'-Methylenebis(3,4,6-trichlorophenol)
      Methylene bromide
     Methylene chloride
     Methylene oxide
     Methyl ethyl ketone (I,T)
     Methyl ethyl ketone peroxide (R,T)
     Methyl iodide
```

```
U161 Methyl isobutyl ketone (I)
U162 Methyl methacrylate (I,T)
U163
      N-Methyl-N'-nitro-N-nitrosoguanidine
U161 4-Methyl-2-pentanone (I)
U164 Methylthiouracil
U010 Mitomycin C
U059 5,12-Naphthacenedione,(8S-cis)-8-acetyl-10-[(3-amino-2,3,6-trideoxy-
         alpha-L-lyxo-hexopyranosyl)oxyl)-7,8,9,10-tetrahydro-6,8,11-trihy
         droxy-1-methyoxy-
U165 Naphthalene
      Naphthalene, 2-chloro-
U047
U166 1,4-Naphthalenedione
U236 2,7-Naphthalenedisulfonic acid,3,3'-[(3,3'-dimethyl-(1,1'bi-phenyl)-
         4,4'diyl)}-bis(azo)bis(5-amino-4-hydroxy)-, tetrasodium salt
U166 1,4, Naphthaquinone
      1-Naphthylamine
U167
U168
      2-Naphthylamine
U167
       alpha-Naphthylamine
U168
      beta-Naphthylamine
      2-Naphthylamine, N,N'-bis(2-chloromethyl)
U026
U169
       Nitrobenzene (I,T)
U170
       p-Nitrophenol
U171
       2-Nitropropane (I)
U172
      N-Nitrosodi-n-butylamine
       N-Nitrosodiethanolamine
U173
U174
       N-Nitrosodiethylamine
U111
       N-Nitroso-N-propylamine
U176 N-Nitroso-N-ethylurea
U177
       N-Nitroso-N-methylurea
U178
       N-Nitroso-N-methylurethane
U179
       N-Nitrosopiperidine
      N-Nitrosopyrrolidine
U180
      5-Nitro-o-toluidine
U193
      1,2-Oxathiolane,2,2-dioxide
U058 2H-1,3,2-Oxazaphosphorine,2-[bis(2-chloroethyl)amino] tetrahydro-,
         oxide 2-
U115 Oxirane (I,T)
      Oxirane, 2-(chloromethyl)-
U182 Paraldehyde
U183
       Pentachlorobenzene
U184
       Pentachloroethane
U185
       Pentachloronitrobenzene
      1,3-Pentadiene (I)
U186
```

U188	Phenol
U048	Phenol, 2-chloro-
11039	Phenol, 4-chloro-3-methyl-
1/081	Phenol, 2,4-dichloro
U082	Phenol, 2,6-dichloro-
.0101	Phenol, 2,4-dimethyl-
U170	Phenol, 4-nitro-
11137	1,10-(1,2-phenylene)pyrene
11145	Phosphoric acid, Lead salt
U087	Phosphorodithioic acid O,O-diethyl-,S-methylester
11189	Phosphorous sulfide (R)
11190	Phthalic anhydride
(1191	2-Picoline
U192	Pronamide
11194	1-Propanamine (I,T)
U110	1-Propanamine, N-propyl- (I)
11066	Propane, 1,2-dibromo-3-chloro-
H149	Propanedinitrile
$\Box \Box \Box \Box$	Propane, 2-nitro- (1)
U027	Propane, 2,2'-oxybis(2-chloro)-
U193	1,3-Propane sultone
0235	1-Propanol, 2,3-dibromo-,phosphate(3:1)
U126	1-Propanol, 2,3-epoxy-
U140	1-Propanol, 2-methyl- (1,T)
U002	2-Propanone (I)
U007	2-Propenamide
U084	Propene, 1,3-dichloro-
U243	1-Propene, 1,1,2,3,3,3-hexachloro-
U009	2-Propenenitrile
U152	2-Propenenitrile, 2-methyl- (I,T)
U008	2-Propenoic acid (I)
0113	2-Propenoic acid, ethyl ester (I)
01118	2-Propenoic acid, 2-methyl-, ethyl ester
U162	2-Propenoic acid, 2-methyl, methyl ester (I,T)
11194	n-Propylamine (I,T)
U083	Propylene dichloride
U196	Pyridine
01155	Pyridine, 2-[(2-(dimethylamino)-2-thenylamino)]
U179	Pyridine, hexahydro-N-nitroso-
U191	Pyridine, 2-methyl-
11164	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-
08111	Pyrrole, tetrahydro-N-nitroso-
U200	Reserpine
11201	Resorcinol

10202 Saccharin and salts

U203	Safrole
U204	Selenious acid
U204	Selenium dioxide
U205	Selenium disulfide (R,T)
U015	L-Serine, diazoacetate (ester)
U089	4,4'-Stilbenediol,alpha,alpha'-diethyl-
U206	Streptozotocin
U135	Sulfur hydride
U103	Sulfuric acid, dimethyl ester
U189	Sulfur phosphide (R)
U205	Sulfur selenide (R,T)
U207	1,2,4,5-Tetrachlorobenzene
U208	1,1,1,2-Tetrachloroethane
U209	1,1,2,2-Tetrachloroethane
U210	Tetrachloroethylene
U213	Tetrahydrofuran (l)
U214	Thallium(l) acetate
U215	Thallium(I) carbonate
U216	Thallium(I) chloride
U217	Thallium(l) nitrate
U218	Thioacetamide
U153	. A second
U219	
U244	
U220	•
U221	
U223	
U328	o-Toluidine
U222	
U353	
U011	
U226	1,1,1-Trichloroethane
U227	1,1,2-Trichloroethane
U228	
U228	Trichloroethylene
U121	Trichloromonofluoromethane
U234	sym-Trinitrobenzene (R,T)
U182	1,3,5-Trioxane, 2,4,5-trimethyl-
U235	
U236	
U237	Uracil, 5[bis(2-chloromethyl)amino]-
U237	
U043	3 Vinyl chloride

RCRA GENERATOR INSPECTION FORM

COMPANY NAME: Owens - Illinois EPA I.D. NUMBER: U	I DOOR	3420	57
COMPANY ADDRESS: Vineland, NT			
COMPANY CONTACT OR OFFICIAL: Walt Wenner INSPECTOR'S NAME: C			,
TITLE: Engineering Scrices Supervisor BRANCH/ORGANIZATION Project Supervisor	I: NIDE	P/Bu	reciv tu
CHECK IF FACILITY IS ALSO A TSD DATE OF INSPECTION:	9-8.8	1	DON'T
	YES	<u>MO</u>	KNOW
(1) Is there reason to believe that the facility has hazardous waste on site?	X	————————————————————————————————————	
a. If yes, what leads you to believe it is hazardous waste? Check appropriate box:			
Company admits that its waste is hazardous during the inspection.			
Company admitted the waste is hazardous in its RCRA notification and/or Part A Permit Application.			
// The waste material is listed in the regulations as a hazardous waste from a nonspecific source (§261.31)			
The waste material is listed in the regulations as a hazardous waste from a specific source (§261.32)			
The material or product is listed in the regulations as a discarded commercial chemical product (§261.33)	. ·		
<pre>EPA testing has shown characteristics of ignitability, corrosivity, reactivity or extraction procedure toxicity, or has revealed hazardous constituents (please attach analysis report)</pre>			
Company is unsure but there is reason to believe that was materials are hazardous. (Explain)	te .		

		,					•	
		•	•					DON'T
		•	•			<u>YES</u>	<u>100</u>	KI COM
				*	,			
,	h	Is there reason to b	elieve that th	ere are hazardous	s		•	
,	b.	wastes on-site which	the company of	laims are merely				
		Wastes on-site which	Tie company	Tarke are merely			D.	
		products or raw mate	riais?	* ·			`	
					_			•
		Please explain:						
			•	•				
		•				,		
	C.	Identify the hazardo	ous wastes that	are on-site, an	ď,			
		Limeles approvimate	coupntities of	each				+ /
	- :	estimate-approximate	3.1	a -coally d	a	1 lea	A due	st (270°
2:	Sopr	e truck load to anu	meepings. , so	ea sagar	10111	_	1	'' ('''
- 1	~, ,	V-CVY CLEOLOG	' ' / 5	if + grand org	when f	. p sc-	ساجريت	r waid
ţ	197	um'dello	. / 🖫	of draw ad al	her cilcu	h- i.a.	ita co	
25	:dru	ne oil spill clean-up Describe the activit	· / /	the deporat	ion		~~ C C	
-	đ.			it in the deneral	.1011			
		of hazardous waste.		machines		_		
			3	gen. From 1.	ead al	ک دمہ	.) 	c a
			most waste	4000	cc 2.	, , ,	المام مام	α_{j}
			EP collect	for timesping	S • •			
				13. 1 11		_,		
(2)	Īs	hazardous waste store	ed on site?		-	<u>6</u>		
(-)		•						•-
	a.	What is the longest	period that i	t has been accumu	ılated?	Ĝ	11	
	۵.	Milac 15 and 1919-19				1 n	whal	∆
				•				,
		To the date when do	ime ilore place	d in storage mark	ced on	$\mathcal{C}_{\mathcal{X}}$		
	b.	Is the date when dr	mis were brace	a In Storage mar.		74		
		each drum?			•			
			•					
								•
(3)	Ha	s hazardous waste bee	n shipped from	this facility s	ince	k		•
		vember 19, 1980?		• •				
				• •	. . .		•	
	a.	If "yes," approxima	tely how many	shipments were ma	ade?			
		• • •			 . 9			
		•	•					
							•	
(4)	λ'n	proximately how many	hazardous wast	e shipments off	site have	· ·		•
(7)	wh	en made since Novembe	r 19. 1980?	. •		one	_	
•	be	en made Strice Movembe	17, 1700.	,		0~		
			. the amailable	information the	t there i	5 4		
	a.	Does it appear from	I THE AVAITABLE	r riirori:::::::::::::::::::::::::::::::	c cherc i	;; <u> </u>		
		a manifest copy ava	irrapre for eac	nazardous wast	e siithiigi	10		
		that has been made	?	•				

If "no" or "don't know," please elaborate.

		YES	<u>CM</u>	DON'T
c.	Does each manifest (or a representative sample) have the following information?		·	
	- a manifest document number	<u> </u>		
	 the generator's name, mailing address, telephone number, and EPA identification number 	2		
	 the name, and EPA identification number of each transporter 	A		
	- the name, adoress and EPA identification number of the designated facility and an alternate facility, if any:	<u> </u>		
	- a description of the wastes (DOT)	<u> </u>	· 	
	 the total quantity of each hazardous waste by units of weight or volume, and the type and number of con- tainers as loaded into or onto the transport vehicle 	<u>K</u>	· ·	
	 a certification that the materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation under regulations of the Department of Transportation and the EPA 	<u> </u>		
	re there any hazardous wastes stored on site at the time the inspection?	<u>k</u>		· :
a.	If "yes," do they appear properly packaged (if in containers) or, if in tanks, are the tanks secure?	X		
b.	If not properly packaged or in secure tanks, please explain.		-	
•				
c.	Are containers clearly marked and labelled?	<u>×</u>		
đ.	Do any containers appear to be leaking?		<u>«</u>	
e.	If "yes," approximately how many?			

(5)

* (6)	Has the	generator	submitted	an	annual	report	to	EPA	covering
	the previous calendar year?					, 1.		ė	

NIA

- a. How do you know?
- (7) Has the generator received signed copies (from the TSD facility) of all manifests for wastes shipped off site more than 35 days ago?

a. If "no," have Exception Reports been submitted to EPA covering these shipments?

N/A

(8) General comments.

See Review Sheet

^{*} The effective date for this requirement is March 1, 1982.

PAC. VAME Ouera- Illinois

1600271500027

DATE 9-8-81

TYPE CEN, TSDE

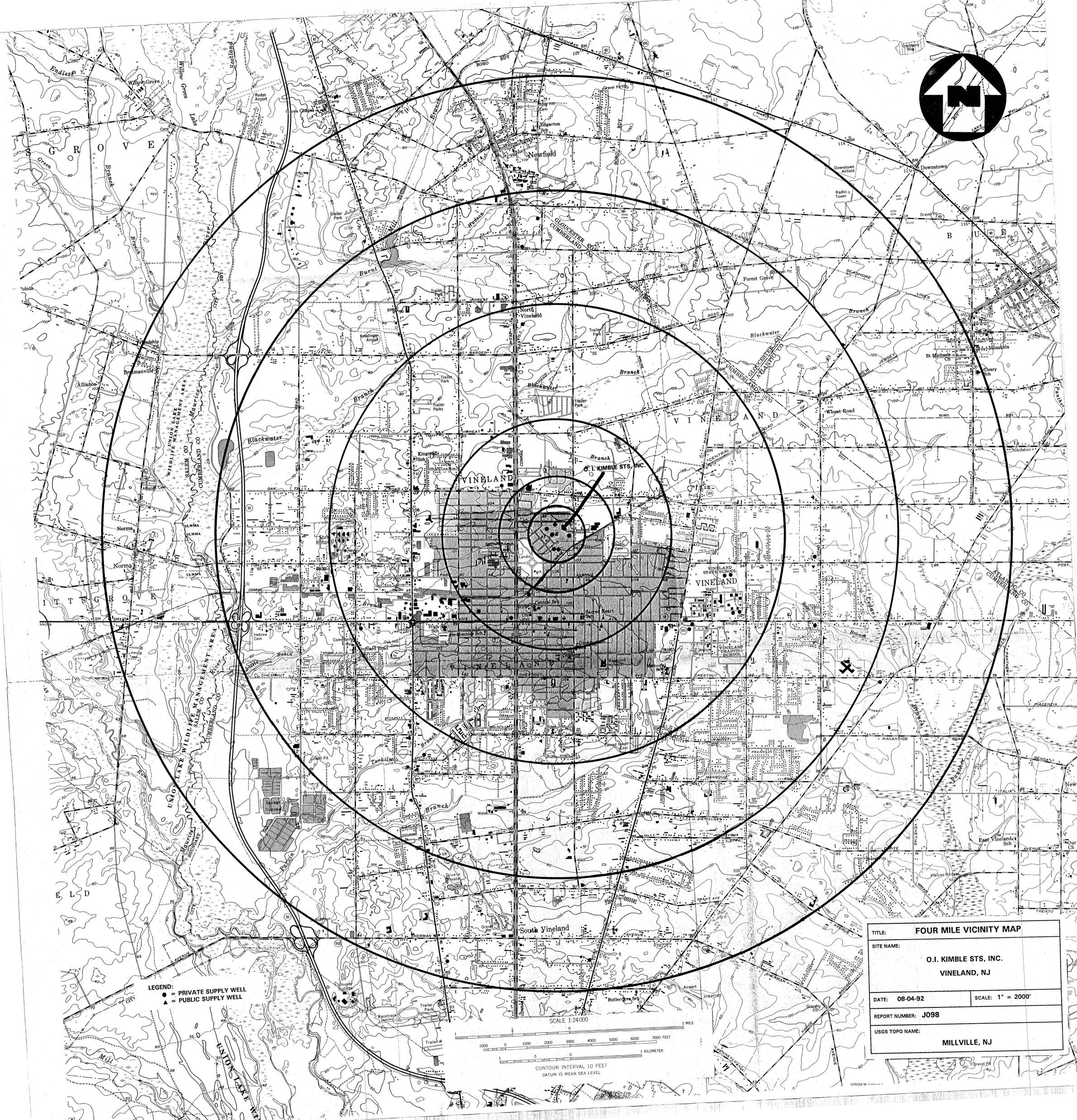
NAME CHAR Elmendors NIDER

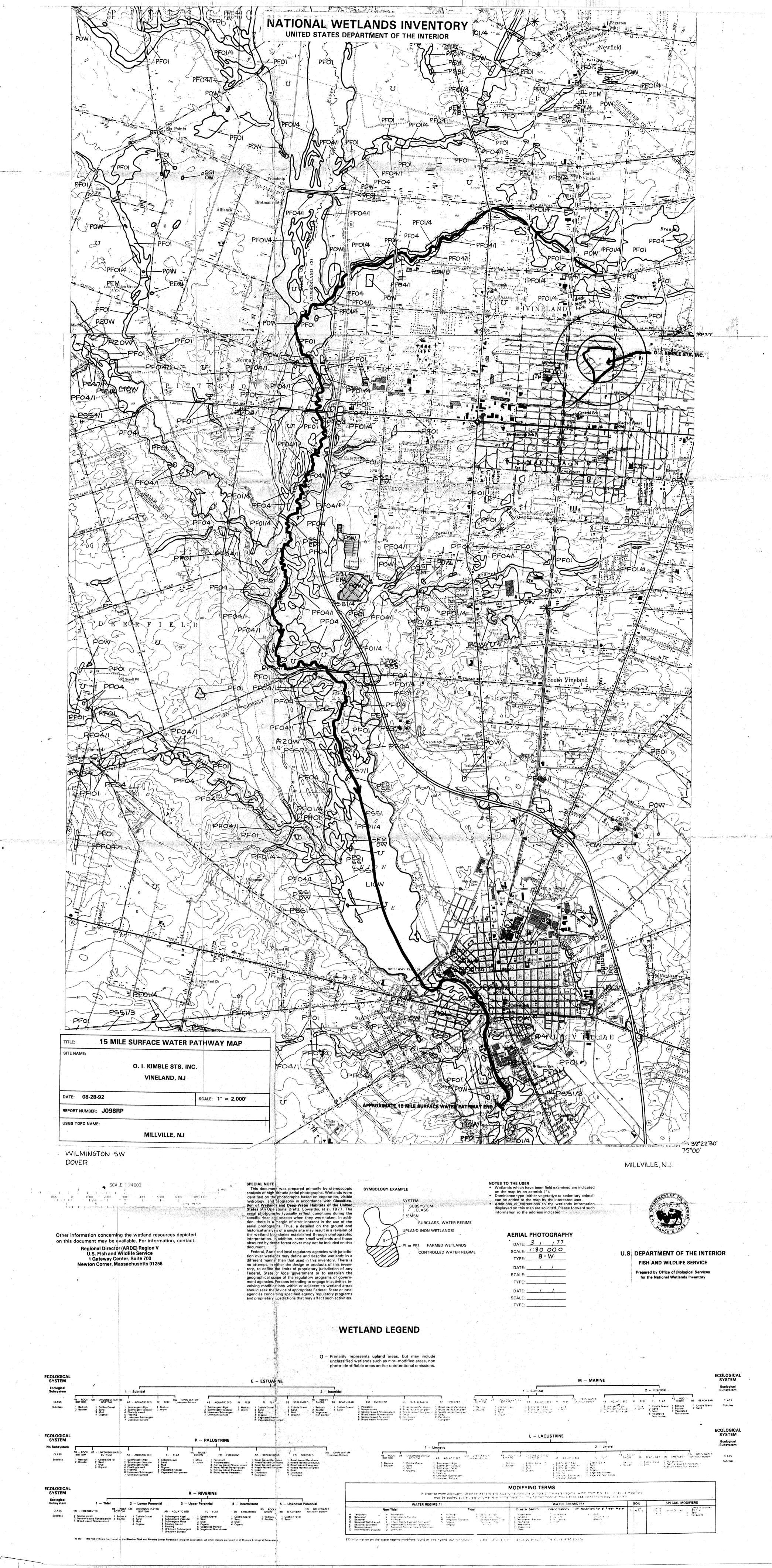
FINDINGS:

All paperwork was in order for the impection, All waste stored on site looked o.k. except two drows of waste solvent (Flamable). These two droms mere not leaking, but should be stored ... on an impermisable, contained area.

Recconemded to Contact to upgrade flow. waste. storage area

Reccome Mations:





NUS CORPORATION AND SUBSIDIARIES

TELECON NOTE

CONTROL NO:	DATE:	TIME:
J098 RP	5 August 1992	1400h.
DISTRIBUTION:	- Sur-	
O-I. Kimble STS.		
BETWEEN:	T OE:	PHONE:
	Vineland Health Department	PHUNE:
George Sarterio	Health Department	(609) 794 9131
CORRY T. PLATT /HN	us)	
DISCUSSION:		
O.J. kimble is a	unrected to public suy	gry as a supplemental
_	s use its own private	· ·
	rufer D.I. Kimble A	
	n the groundwater To	
are in the process of	of being installed at	These two wells.
antamination has been	detected at other wells.	in The 9 mile area
but cannot be blamed	on O.I. Kimble. If	reeded a capy of
The public Supply month	be made by hand	using a city
engineering map and	the well boat public	supply systems
map in the Health	Office	, ,
	A- 1	
	Con T. Plott	8/5/92
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
ACTION ITEMS:		
Find out about need	to get precise inform	mation about
Socations of private	wells from Gay Rojes	k Project Manager
	THO OLL	
	> 01p 8/5/82	
		,
		+

NUS CORPORATION SUPERFUND DIVISION

PROJECT NOTES

TO: O.I. Kimble STS	DATE: 23 July 1992
FROM:	COPIES:
SUBJECT: Conversion of Mouerice lives	Flow
REFERENCE: Freshwater Fisheries Data a Conve	
ABOVE UNION LAKE!	
7.95 m3/sec x 3.5314 x10' = 280.	75 cfs
BELOW UNION LAKE:	
8.98 m3/sec x 3,5314 x101 = 3	17,12 cfs
	·
·	
<u>.</u>	·

NUS CORPORATION	AND SUBSIDIA	ARIES	TELECON NOT
CONTROL NO:	DATE:		TIME:
5098	24	July 1992	1020
DISTRIBUTION:		/ 	
O.I. Kimble			
		•	
BETWEEN:		OF: Minotola Water	PHONE:
Anthony Casadia	·	Utilities.	(609)697 0450
^			
Conpy T. PLATT	HNU	US .	
DISCUSSION:			
The Mino	tola Water	supply is pub	lie drown from
the Penery Point	tourser to	serve 1000-15	00 persono in
•			ibuted throughout The
	_		
Landisville city	limits also	but the 4	mile radius only
includes the born	ruch of Min	otola which	serviced by
^	•	<u> </u>	Minotola service is
only within city &		Dennices 1000-15	opeople.
(org 7. V.	latt		
7/29/92			
<i>,</i>			
ACTION ITEMS:			
ACTION TIEMS:		•	•
/			
	<u> </u>		

NUS 067 REVISED 0685

NUS CORPORATION AND SUBSIDIARIES **TELECON NOTE** CONTROL NO: 24 July 1992 J098-RP 1430 B.I. Kimble BETWEEN: PHONE: Newfield (609) 697 1100 Town Clerk CORRY T. PLATT HNUS. DISCUSSION: All wells in the area of concern, within 9 miles of The O.I. Kimble Site, near and including Newfield NJ are private Com T. Plath 7/29/92 **ACTION ITEMS:**

NUS 067 REVISED 0685

To: Lilli Gonzalez

Malcolm Pirnie Inc

104 Interchange Plaza
Cranbury, New Jersey

Fr: Bob Frost Frost Associates P.O. Box 495 Essex, Conn 06426

Tel: (203) 767-1254 Fax: (203) 767-7069

Sub: O. I. Kimble Sts Inc.

SITE LONGITUDE: 75.019173 SITE LATITUDE: 39.495831

Censu Tract	ID 	Tract Populat'n	House Holds	Public Water	Drilled Wells	Dug Wells
34001 0 34001 0 34011 0 34011 0 34011 0 34011 0 34011 0 34011 0 34011 0	0113 011202 0401 0402 0403 0404 0405 0406 0407 040898	4441 7644 530 6216 3285 5824 5448 7028 7295 5724 3894	1761 2724 188 2035 1560 2082 2049 2459 2386 2087 1263 3439 570	1451 220 202 2021 1560 2052 1963 2349 2153 970 764 2461 552	262 2125 0 0 0 30 57 90 205 1068 475 865	48 382 0 0 0 29 20 28 42 24 1 1 3
	501703 0211		1432 2789	77 425	1245 2196	105 156

For Radius of 4 Mi., Circle Area = 50.2656

Census	Total	Partial	% Within
Tract ID	Area	Area	Radius
34001 113	7.313417	2.426995	33.19
34001 11202	40.335430	1.347273	3.34
34011 401	0.355983	0.355983	100.00
34011 402	0.799350	0.799350	100.00
34011 403	0.695604	0.695604	100.00
34033 211	45.084892	3.712863	

34011 405 34011 406 34011 410 34011 410 34011 409 34015 5013 34015 5013 34011 404	98 14.746664 3 1.511429	2.079504 2.390991 6.050445 6.047778 4.123828 13.180154 1.254677 3.806108- 1.990288	100.00 100.00 100.00 19.13 67.25 89.38 83.01 30.71
Totals	173.497101	50.261841	

For Radius of 3 Mi., Circle Area = 28.2744

Census Tract ID	Total Area	Partial Area	% Within Radius
34001 113	7.313417	0.753743	10.31
34001 11202	40.335430	0.168649	0.42
34011 401	0.355983	0.355983	100.00
34011 402	0.799350	0.799350	100.00
34011 403	0.695604	0.695604	100.00
34033 211	45.084892	0.029928	0.07
34011 405	2.079504	2.079504	100.00
34011 406	2.390991	2.390991	100.00
34011 407	6.050445	4.703947	77.75
34011 410	31.617481	1.922461	6.08
34011 40898	6.132367	0.532986	8.69
34011 40998	14.746664	10.293234	69.80
34015 5018	1.511429	0.053123	3.51
34015 501703	12.393247	1.498895	12.09
34011 404	1.990288	1.990288	100.00
Totals	173.497101	28.268686	

For Radius of 2 Mi., Circle Area = 12.5664

Census Tract ID	Total Area	Partial Area	% Within Radius
34011 401 34011 402 34011 403 34011 405 34011 406 34011 407 34011 40998 34011 404	0.355983 0.799350 0.695604 2.079504 2.390991 6.050445 14.746664 1.990288	0.355983 0.799350 0.695604 1.116282 1.147080 1.526424 5.130000	100.00 100.00 100.00 53.68 47.98 25.23 34.79
Totals	29.108829	12.566400	

For Radius of 1 Mi., Circle Area = 3.1416

Census	Total	Partial	% Within
Tract ID	Area	Area	Radius
34011 401	0.355983	0.130511	36.66
34011 402	0.799350	0.756480	94.64
34011 403	0.695604	0.297201	42.73
34011 40998	14.746664	0.776805	5.27
34011 404	1.990288	1.180603	59.32
Totals	18.587889	3.141600	

For Radius of .5 Mi., Circle Area = .7854

Census	Total	Partial	% Within
Tract ID	Area	Area	Radius
34011 402	0.799350	0.089659	11.22
34011 403	0.695604	0.007479	1.08
34011 40998	14.746664	0.036825	0.25
34011 404	1.990288	0.651436	32.73
Totals	18.231907	0.785400	

For Radius of .25 Mi., Circle Area = .19635

Census Tract ID	Total Area	Partial Area	% Within Radius
34011 404	1.990288	0.196350	9.87
Totals	1.990288	0.196350	

Population: 52869 Households: 18899 Drilled Wells: 2407 Dug Wells: 283

======= Fartial (RING) data ========

Within Ring: 4 ---> 3 --Population: 10466
Households: 3646
Drilled Wells: 1173
Dug Wells: 109

Within Ring: 3> 2 Population: 15663 Households: 5514 Drilled Wells: 781 Dug Wells: 102
Within Ring: 2> 1 Population: 15302 Households: 5662 Drilled Wells: 390 Dug Wells: 66
Within Ring: 1> .5 Population: 8775 Households: 3142 Drilled Wells: 51 Dug Wells: 6
Within Ring: .5> .25 Population: 2088 Households: 730 Drilled Wells: 9 Dug Wells: 0
Within Ring: .25> 0 Population: 575 Households: 205 Drilled Wells: 3 Dug Wells: 0

NUS CORPORATION AND SUBSIDIARIES **TELECON NOTE** CONTROL NO: 27 July 1992 1450 J098-RP O.I. Kimble BETWEEN: PHONE: (609) 825-7000 Patrick May CORRY T. PLATT (HNUS) There are no active surface water intakes from either Union Lake or Mourice liver that services Their He did mention that in The 1960's am active intake from The Union Lake existed but is no longe, Union Sake was polluted with arsenic but That has been blamed on Vineland Chemical Company ACTION ITEMS:

NUS 067 REVISED 0685

Hydrogeologic Frame New Jersey Coastal Plant

he

By OTTO S. ZAPECZA

REGIONAL AQUIFER-SYSTEM ANALYSIS NORTHERN ATLANTIC COASTAL PLAIN

U. S. GEOLOGICAL SURVEY PROPESSIONAL PAPER 1404 - B



RIO GRANDE WATER-BEARING ZONE

Midway within the confining bed that weekling Atlantic City 800-foot sand lies a relatively the co aguifer (sections L-L', L'-A, and M-M', pl. $\{0,1,2,\ldots, L'\}$ described this unit in Cape May County re to it as the Rio Grande water-bearing zone. Ift town in Cape May County that uses it for publishs The same unit was recognized as early as 1890 Atlantic City region and on the southern barrier b of Ocean County, where it was generally referre the 550-foot horizon (Woolman, 1891, p. 289) p. 224). The lateral persistence of the Rio Grande walking bearing zone from Cape May County to Ocean County is shown on section M-M' (pl. 5). Thickness and the contract of the contract o ture contour maps of this unit are not given in the report. Tops and thicknesses of the Rio Grande waterbearing zone can be calculated from the hydrogeologic

The Rio Grande water-bearing zone is used mainly in southern Cape May County, where aquifer thicknesses can exceed 100 ft. It is generally less than 40 ft thick throughout much of the coastal area in southern Ocean and Atlantic Counties. The aquifer is seldom used outside of southern Cape May County and is of minor anportance. Therefore, in this report, the Sio Grande water-bearing zone has been included as part of the confining bed overlying the 800-foot sand shown on plate 22

KIRKWOOD-COHANSEY AQUIFER SYSTEM

Kirkwood-Cohansey aquifer system The predominantly a water-table aquifer that underlies has area of approximately 3,000 mi2 southeast of the walks limit of the outcrop of the Kirkwood Formation. This aquifer system is composed of the Kirkwood Formation and the Cohansey Sand and, depending on location can include overlying deposits of the Beacon Hill Gravel, the Bridgeton Formation, and the Cape May Formation (Rhodehamel, 1973). The Kirkwood-Cohemsey aquifer system is confined by overlying Pleistocene deposits on the peninsular part of Cape May County.

The lithology of the Kirkwood Formation, as indicated previously, is variable. Along coastal areas thick clay beds are dominant, with interbedded zones of sand and gravel. In the subsurface updip from the coast. This to medium sand and silty sand are common, extensive clay beds occur only in the ball part of the formation.

Mills Bokeres The Cohansey Sand, also of Miocene ringlios It is grained than the underlying Kirkwood predominantly a light-colored quartz s all gental along minor amounts of pebbly sand, finesand, silty and clayey sand, and in the said clay, (Rhodehamel, 1973, p. 24). Some local day begy with a sell-fact result in the discontinuity is

k ave relative to Just semiconfined bondles is end and ន់ 💥 onansey aguiler and Cohansey band as the liverop re c YD Mi Bridgeter. Formation bills omittable i 3.44 lenosits (freens and Minard, 1979). The lices? balovernes the Cohausey Sand only in annofit co on the highest hills between nmouth Comment Warren Creek, Jarlino where it can be senguely as 40 ft this dicear. Twe'' sard, 1972 p. 1965 file coarse-graines . Dave in. widespread and ten generally to 500 a tinckinds to the equifor system in parts & Cambers, Clouceste Salem, I land, Atlanti, and Cape V Countie (Owens and Minard, 1979, p. 1214).

Throughout Most of Cape May County, the Pleistocene Cape May Formation directly overlies the Cohonsoy Sand. Gill (1962, p. 20) divined the Cape May Formaflow into four dissinct, environmental facies. In order of reposition they are estillatine sand, estuarine city, he sand, and deltain sand. Gill (1962, fig. 2) has that in the northern half of Cape May Courty long the asist at ar south at Stone Harbor, Johanney () Riskin hydraulic connection with gand deltaic sand facies. The marine and the cape May Formation adds as invite handle to a light three of the Lirkwood-Cohanner the northern half of Care May County. and County, the is generally in hydraulic connection with the esqualize strikescies but is confined by the overlines comes in any factes (Gill, 1962, bg. 2). The estual his play facile gainerally ranges from 25 to 125 ft in thick neas (Gill, 1962 p. 27)

The hase of the Kirkwood-Cohansey aquifer systom is shown an late 25. The map saustrates two me regions was surfaces for the water table aquifer. The two springer are differentiated by the double dashed in representing the approximate westward limit of the jor conjuging hed overlying the Atlantic City 800 12sand. The basel surface for the Kirkwood-Cohenser aquifur stars west of this line of the top of the clay is a tring with the trial line. veod Forrest eglogic section of the section of th the balls is a March of the Allower Clay Mentler differential of description by Nemickas For 图 图 5 1 4 4 4 6 Diagratic Line

The challed that the control of the second Like the transfer of the coverlies of the coverlies of

- 3. The middle aquifer of the Potomac-Raritan-Magothy aquifer system occurs over the same area as the lower aquifer but is also laterally continuous in the subsurface of the northern Plain of New Jersey, where it is equivalent to the Farrington aquifer.
- 4. The upper aquifer of the Peternac-Raritan-Magothy aquifer system is mapped in the subsurface throughout the Coastal Plain southeast of the outcrop area of the Magothy Formation. The upper aquifer is equivalent to the Old Bridge aquifer in the northeastern Coastal Plain of New Jersey.
- 5. The Merchantville-Woodbury confining bed is the most extensive confining bed within the Coastal Plain. This unit functions as an effective confining bed between the upper aquifer of the Potomac-Raritan-Magothy aquifer system and the Englishtown aquifer system. In areas where the Englishtown aquifer system is absent, the Merchantville-Woodbury confining bed effectively confines the upper aquifer of the Potomac-Raritan-Magothy aquifer system from the Wenonah-Mount Laurel aquifer.
- 6. The Englishtown aquifer system functions primarily as a single aquifer but contains two water bearing sands in parts of Monnouth and Ocean Counties. South of a line paralleling Forked River (Ocean County) and running through Hammonton (Atlantic County), and Bridgeton (Cumberland County), the Englishtown aquifer system is not recognized on geophysical logs that penetrate the section.
- 7. The Marshalltown-Wenonah confining bed is a thin, leaky unit that ranges in thickness from 20 to 80 ft. This confining bed lies between the Englishtown aquifer system and the Wenonah-Mount Laurel aquifer.
- 8. The Wenonah-Mount Laurel aquifer is identified in the subsurface throughout the New Jersey Coastal Plain southeast of the outcrop of the Mount Laurel Sand.
- 9. Sediments that overlie the Wenonah-Mount Laurel aquifer and that are subjacent to the major aquifers within the Kirkwood Formation and the Cohansey Sand function primarily as a composite confining bed but include minor aquifers, namely the Vincentown and Piney Point.
- 10. The Vincentown Formation functions as an aquifer within its outcrop area and for 8 to 10 mi downdip. In areas farther downdip, the Vincentown Formation functions as a confining bed.
- 11. The Piney Point aquifer is laterally persistent from the southern Coastal Plain northward into Burlington and Ocean Counties. The name Piney Point aquifer replaces the name Manasquan Formation for this waterbearing unit in Burlington and Ocean Counties.—

- 12 The Atlantic City 800 foot sand of the Kirkwood Formation can be recognized in the subsurface along coastal areas of Cape May, Atlantic, and southern Ocean Counties, but only as far west as the limit of the overlying confining bed. In areas west of the limit of the overlying confining bed, the Kirkwood Formation is in hydraulic connection with the overlying Cohansey Sand and younger surficial deposits and is an unconfined aquifer.
- 13. The Kirkwood-Cohansey aquifer system is predominantly a water-table aquifer that underlies an area of approximately 3,000 mi² southeast of the updip limit of the outcrop of the Kirkwood Formation. The aquifer system is composed of the Kirkwood Formation, the Cohansey Sand, and overlying deposits of the Beacon Hill Gravel, the Bridgeton Formation, and the Cape May Formation.

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Superfund Handbook

A Guide to Managing Responses to Toxic Releases Under Superfund

By

SIDLEY & AUSTIN

Gene Lucero Katherine Moertl

ENSR Corporation

Raymond Holmes Caren Arnstein

September 1989 • Third Edition

enerally outlines the broad A/SARA and the Superpe of this Handbook to Superfund program. that may be faced in the addressed in the context time. In furnishing this representation, either tility of the information and liability of any kind h, procedure, conclusion,

tional Plaza

y form or by any means & Austin. All inquiries Vagog Park, Acton, MA , Chicago, Illinois 60603,

Legal Notice

This Handbook is intended to be an information document that generally outlines the broad elements of the legal, regulatory, and technical framework of CERCLA/SARA and the Superfund program in effect in April 1989. As such, it is not within the scope of this Handbook to analyze specific legal, policy, or technical issues that may arise in the Superfund program. Rather, it is the purpose of the authors to identify significant issues that may be faced in the Superfund area. Specific questions about particular matters should be addressed in the context of the facts that underlie them and the policies and law in effect at the time. In furnishing this Handbook, ENSR and Sidley & Austin do not make any warranty or representation, either express or implied, with respect to the accuracy, completeness; or utility of the information contained in this document; nor do ENSR or Sidley & Austin assume any liability of any kind whatsoever resulting from the use of or reliance upon any information, procedure, conclusion, or opinion contained in this Handbook.

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Sidley & Austin One First National Plaza Chicago, IL 60603

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In addition, you will forfeit your right to limitations on liability and to any defense against liability under Superfund (Section 107). There are no civil penalties for violating facility notification requirements.

Criminal penalties for violating spill reporting and record retention requirements are more stringent. It is considered a violation of the spill reporting requirement if you (1) fail to report a release you know of, or (2) report false or misleading information, or (3) fail to retain records or make records unavailable. If convicted of violating spill reporting or record retention requirements, you may face:

- imprisonment of up to 3 years for a first conviction and up to 5 years for a subsequent conviction (under the original Act the maximum prison sentence was 1 year); and/or
- as an individual, a maximum fine of \$250,000; or
- as a corporation, a maximum fine of \$500,000.

To help enforce these sanctions, SARA has added a new provision awarding up to \$10,000 to anyone who provides information leading to the arrest and conviction of a person for a criminal violation of CERCLA.

In addition to criminal sanctions for violating spill reporting and record retention requirements, you face civil sanctions in administrative or judicial proceedings. PRPs can expect EPA to use administrative proceedings more often for its own convenience. The civil penalties are a maximum of \$25,000 per violation or per day for each day during which violation continues, with a maximum penalty of \$75,000 for a second or subsequent violation.

You can appeal an administrative penalty in federal court. The court is likely to review only the administrative record, so it is important for you to participate in developing that record. The administrative record consists of the information EPA uses to reach its decision and to assess a penalty against you.

Petroleum Exclusion

What is the petroleum exclusion?

Superfund excludes petroleum (including crude oil or any fraction of petroleum not listed as a hazardous substance under CERCLA/SARA) from the definition of hazardous substance, pollutant, or contaminant. Substances within the petroleum exclusion are not covered by CERCLA requirements. The major problem in interpreting the exclusion is that some listed hazardous substances, such as benzene and toluene, are present in most if not all petroleum products. Additionally, hazardous substances or heavy metals such as lead may be added during the refining process.

EPA has attempted to clarify the scope of the petroleum exclusion to dispel uncertainty about spill reporting requirements under CERCLA and whether it will use CERCLA or other environmental laws. In a 1987 memo-

leum fra hazardo petroleu mally ac mixed w of the m found in

randum

Both encompa benzene exclusion substant exclusion hazardo exclusion

EPA a about w stance is providin

Is waste EPA hare not y

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new provision awardn leading to the arrest
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porting and record
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maximum of \$25,000
oration continues, with
quent violation.
court. The court is

important for you to tive record consists of assess a penalty

or any fraction of ERCLA/SARA) from ntaminant. Substances ERCLA requirements. Let some listed hazardent in most if not all nces or heavy metals

leum exclusion to dismer CERCLA and al laws. In a 1987 memorandum, EPA interpreted the exclusion to encompass petroleum and petroleum fractions that occur naturally, even though the fractions contain listed hazardous substances. EPA has not established detailed rules governing petroleum additives. The agency's position is that hazardous substances normally added during refining are within the exclusion if they are normally mixed with or added to petroleum products during refining and if the levels of the mixed or added hazardous substances do not exceed those normally found in refined petroleum fractions. EPA has published no guidance on the exact meaning of "normal."

Both EPA and a recent court decision have interpreted the exclusion to encompass unleaded gasoline, even though it includes increased levels of benzene from the refining process. EPA also includes within the petroleum exclusion leaded gasoline, a petroleum product containing the hazardous substance lead. Another court has held cutting oils (unused) to be within the exclusion; however, used crankcase oil, containing heavy metals listed as hazardous substances, was held by a different court not to be within the exclusion.

EPA appears to be dealing on a case-by-case basis with difficult questions about when the exclusion applies. If you are uncertain about whether a substance is excluded, you can call EPA. (See Reference Section for documents providing guidance on the petroleum exclusion.)

Is waste oil excluded?

EPA has specifically stated that hazardous substances added to waste oil are not within the exclusion, although waste oil itself is excluded from regulation. Since hazardous substances are typically added to the oil during use, EPA may use CERCLA to respond to a release of contaminated waste oil. Practically speaking, not only must the hazardous substances be cleaned up, but so must the oil.

Are pesticides covered by the petroleum exclusion?

EPA has stated that there is no exception for pesticides, even though the active ingredients may be mixed with a petroleum distillate.

Are there other environmental laws for responding to a spill of petroleum products?

With regulations recently promulgated governing underground storage tanks under the Resource Conservation and Recovery Act (RCRA), Superfund may not often be the first choice for cleanup of leaks from underground storage tanks (USTs) containing petroleum products. EPA recently estimated that there may be more than 100,000 leaks of leaded gasoline from retail gas stations alone. However, the agency has also argued that Superfund, with its finite resources, is not the proper vehicle for cleaning up these leaks. Instead, EPA believes that UST regulations under RCRA

NUS CORPORATION AND SUBSIDIARIES

TELECON NOTE

CONTROL NO:	DATE:		TIME:		
	Fri 17	1 July 1992	0845		
DISTRIBUTION:					
	A				
•					
BETWEEN:		OF: ECRA	PHONE:		
Carolyn Scott		Southern No Office	(609) 633 - 7/4/		
Corry T. Platt					
DISCUSSION:	<u></u>				
Asking her about C	.I. Kimb	le she mentioned :	that the site had		
Asking her about O.I. Kimble she mentioned that the sete had					
undergone a formal closure and is no longer covered by her					
office. The gave me information but it is from memory since					
she has not dealt wir	the the	case in approxim	nately 1 year.		
She mentioned a re		<i>,</i>			
•					
•			air over a large		
parking lot, This area was cleaned-up under the direction					
of her office and					
Soil was excated to 12 feet deep. As bestos was along					
cleaned - up in one building but not enough to be concerned					
with, she said. She also recalls many petroleum product spills					
mon the site which were followed thru by her office also.					
She has had other callo regarding this site since it was					
closed and one that					
ACTION ITEMO.			•		
public Water Supply	centami.	nation caused	by O.I. Kimble, but		
She could not conf	im Th	le final analys	is of this question.		
She also mentioned That The Environmental Engineering					
department may have current sample results or be doing					
sampling oursetly, that but her office no longer does any					
on-site Sampling or minitaring					
IUS 067 REVISED 0685 Corn T. Marth					

NJSDC 1990 Census Publication

Housing Units and Household Population

New Jersey, Counties and Municipalities 1990



JUL 20 REC'D

RECEIVED

NUS CORPORATION REGION II

April 1991

\$5.00

Table 2. Housing Units, Households, and Persons in Households and Group Quarters: 1990 (Cont.)
New Jersey Municipalities by Counties

The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
CUMBERLAND County Municipalities	Total Housing Units	Vacant Housing Units	Total Persons	Persons in Group Quarters	Total Households (1)-(2)	Persons in Households (3)-(4)	Persons per Household (6)/(5)
CUMBERLAND COUNTY	50,294	3,176	138,053	6,598	47,118	131,455	2.79
Bridgeton city	7,142	417	18,942	654	6,725	18,288	2.72
Commercial township	2,028	287	5,026	16	1,741	5,010	2.88
Deerfield township	1,029	37	2,933	9	992	2,924	2.95
Downe township	1,049	418	1,702	0	631	1,702	2.70
Fairfield township	1,993	150	5,699	119	1,843	5,580	3.03
Greenwich township	358	28	911	0	330	911	2.76
Hopewell township	1,473	79	4,215	271	1,394	3,944	2.83
Lawrence township	863	62	2,433	61	801	2,372	2.96
Maurice River township	1,412	163	6,648	3,007	1,249	3,641	2.92
Millville city	10,150	510	25,992	271	9,640	25,721	2.67
Shiloh borough	184	32	408	0	152	408	2.68
Stow Creek township	506	17	1,437	0	489	1,437	2.94
Upper Deerfield township	2,559	160	6,927	21	2,399	6,906	2.88
Vineland city	19,548	816	54,780	2,169	18,732	52,611	2.81

Source: 1990 Census of Population and Housing.

0009-N

NUS CORPORATION	TELECON NOTE	
CONTROL NO:	DATE: 20 July 1992 Mon	TIME: 0900 h
DISTRIBUTION:	,	
BETWEEN: Township Clerk	OF. Pittsgrove N	J PHONE: (609)
AND: CORRY T. PLATT	(HNUS)	
DISCUSSION:		
When asked	. about water supply the	is woman said "We
don't have publi	i water, everyone has To	hein own well."
_	thegrove No would not	
	entakes into a public wa	
\sim	h, Maurice River or Unit	on dake.
- Comy J.	flat	
	/	· · · · · · · · · · · · · · · · · · ·
	<u>/</u>	<u> </u>
		<u> </u>
ACTION ITEMS:		

January 21, 1988

Mr. Ernest J. Kuhlwein, Jr., Chief Bureau of Hazardous Waste Engineering New Jersey Department of Environmental Protection Division of Hazardous Waste Management CN 028 Trenton, New Jersey 08625 C6.23.4

CLOSURE PLAN
KIMBLE GLASS INC.
EPA I.D. #NJD002342087

Dear Mr. Kuhlwein:

Attached, please find a copy of our Closure Plan as requested in your correspondence of December 10, 1987. We believe this plan adequately addresses all items raised in your correspondence, as well as N.J.A.C. 7:26-9.8, regarding delisting of our facility as a TSDF. However, if further information or clarification is required, please contact me. For the sake of expediency, we shall proceed with the closure schedule as outlined in the attached plan while awaiting your approvals.

Sincerely,

Walter G. Wenner ENVIRONMENTAL ENGINEERING SERVICES SUPERVISOR

attachment

cc: Mr. J. Bates - Plant Engineer
Dr. R. Redwine - Plant Manager
File

WW137 WW/16

Country August Mineland New Jareau 19361 1930 16001 603 3600

Kimble Glass Inc. currently stores drums of hazardous waste in Building #13 of it's Vineland, New Jersey Facility. Closure of this storage area shall be completed in accordance with applicable sections of N.J.A.C. 7:26-9.8 as follows. The facility will complete all closure operations by March 11, 1988, with professional engineer certification of the closure by March 18, 1988.

Closure shall be completed by the shipment of all hazardous wastes in storage to federally approved treatment, storage, disposal facilities by March 4, 1988. All solid materials shall be manifested to secure landfill(s), while liquids shall be disposed by incineration. Storage of hazardous wastes after March 11, 1988 shall be for periods of not more than 90 days.

Since all hazardous waste will be properly disposed by March 11, no further maintenance or control shall be necessary. Post closure escape of hazardous waste, hazardous waste constituents, leachate, or contaminated rainfall shall be non-existent.

Once the facility is closed, all future accumulated hazardous wastes will be shipped not more than 90 days after accumulation begins. Therefore, provisions of N.J.A.C. 7:26-10, "Additional Operational and Design Standards for Hazardous Waste Facilities" will not be applicable, as the facility will be exempted under N.J.A.C. 7:26-9.1(c) 4.

The maximum inventory of hazardous waste in storage does not exceed 216-55 gallon DOT containers, or approximately 60 cubic yards. However, the actual maximum inventory is not expected to exceed 175-55 gallon DOT containers, or 48 cubic yards, prior to final closure on March 11, 1988.

All hazardous waste materials in storage have been drummed in DOT approved containers to minimize the possibility of leakage and/or contamination of the storage area and the environment. The existing storage area is inside Building 13, and on an impermeable concrete floor. Therefore, decontamination of the storage area will consist of cleaning the area by sweeping/vacuuming. All materials collected during the decontamination process will be drummed, and analysis will be performed to determine if, in fact, it is a hazardous waste. This material shall be disposed in accordance with N.J.A.C. 7:26-1.4. Visual inspection performed by a professional engineer, licensed in the State of New Jersey, will certify the decontamination process.

1. GENERAL INFORMATION

1.1 NAME AND LOCATION OF FACILITY

Owens-Illinois, Inc.

Kimble Division Plant #31

Crystal Avenue,

Vineland, New Jersey

The Plant is located in the City of Vineland, Cumberland County, on the plot enclosed by Crystal Avenue, Pine Street, Oxford Street, East Avenue, and the Central Railroad of New Jersey. (See location map, Page 2)

1.2 OWNER OF FACILITY

Owens-Illinois, Inc. P.O. Box 1035 Toledo, Ohio

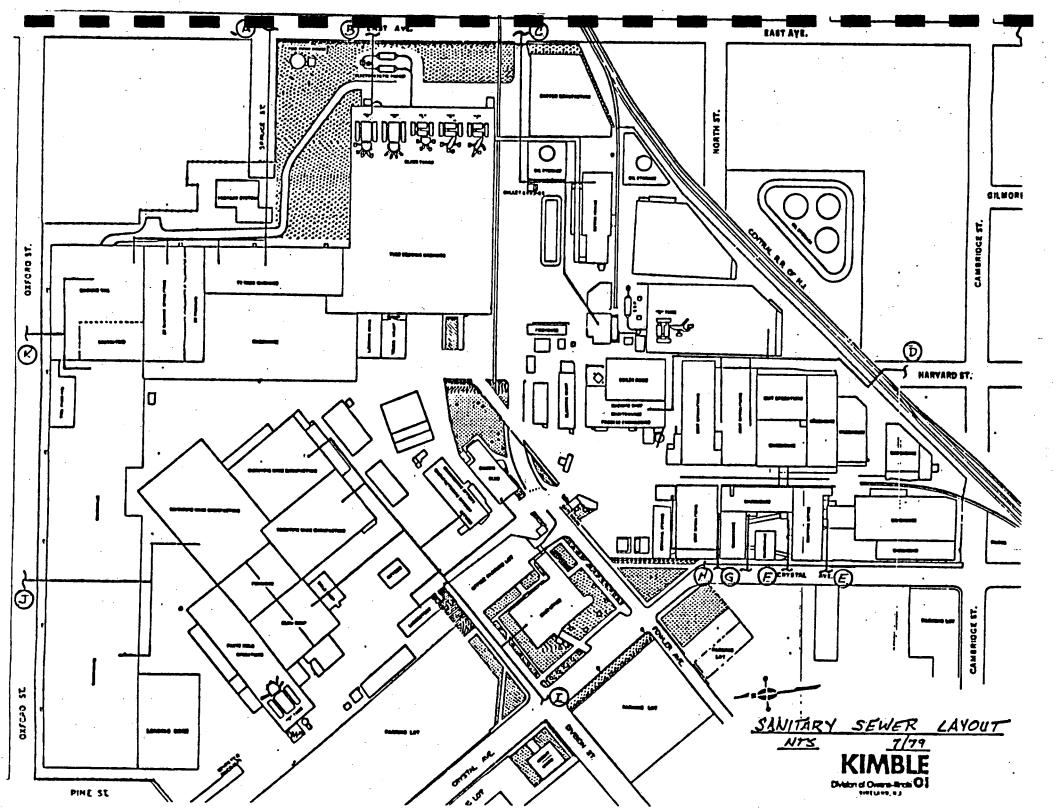
1.3 OWNERS REGISTERED AGENT

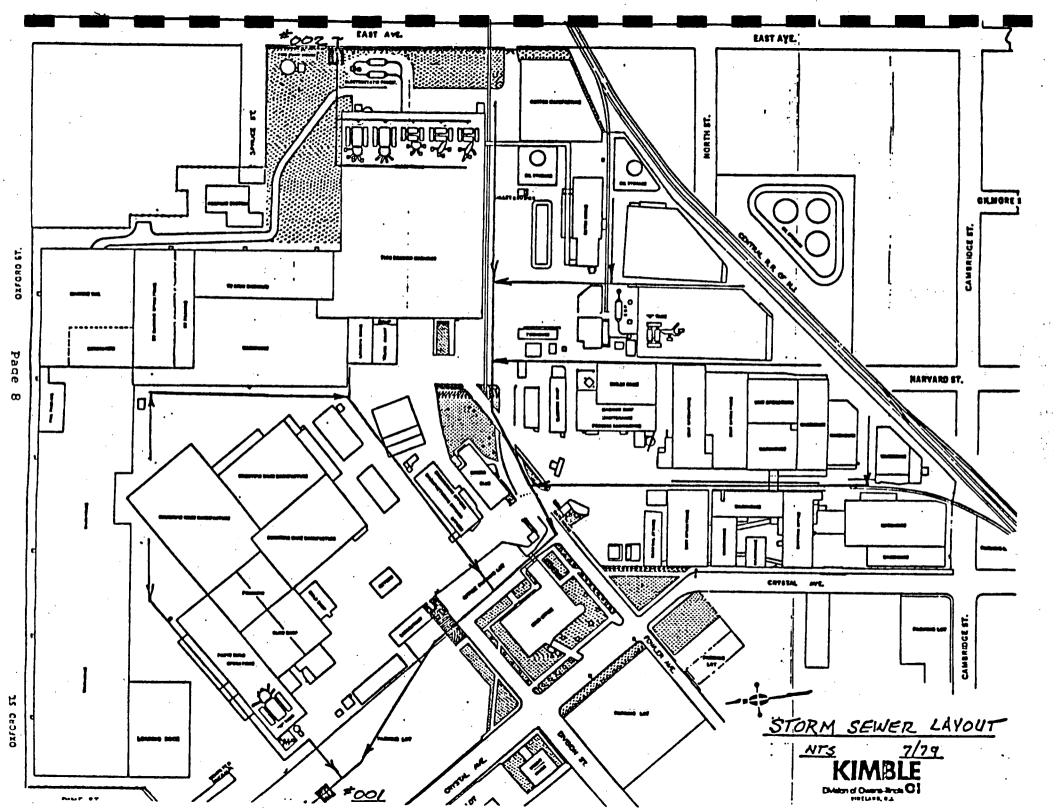
Joseph A. Lucca - Vineland Plant Manager Crystal Avenue Vineland, New Jersey 08360

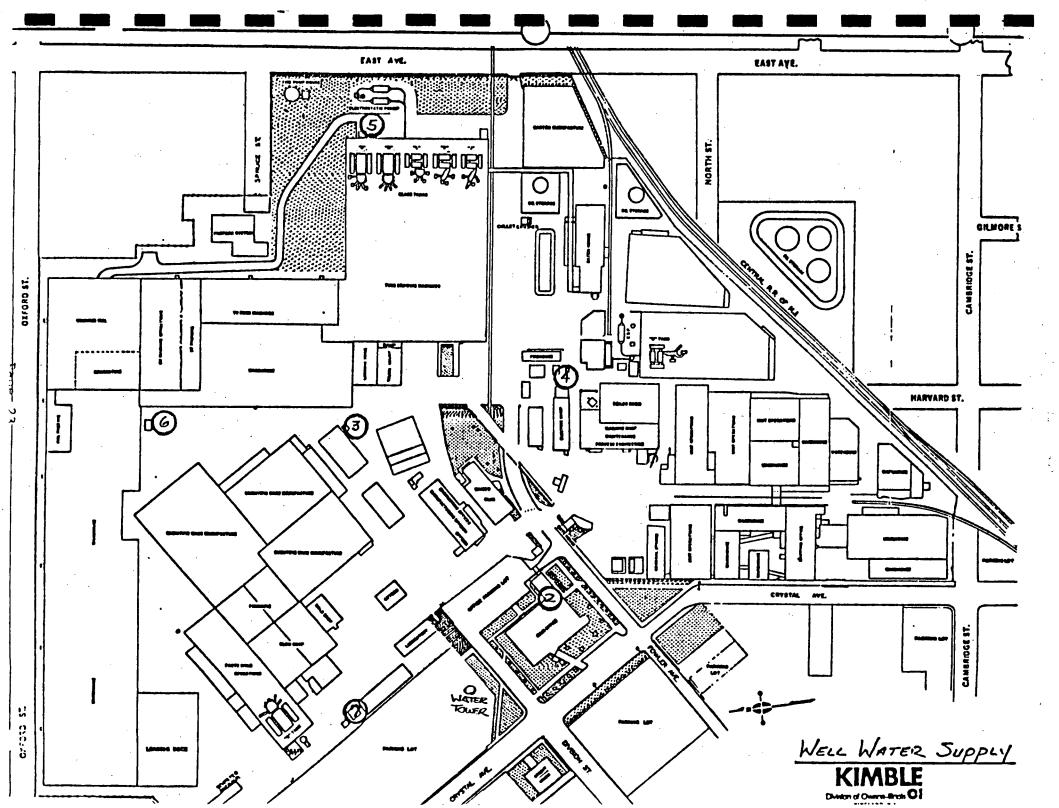
1.4 PLAN APPROVALS

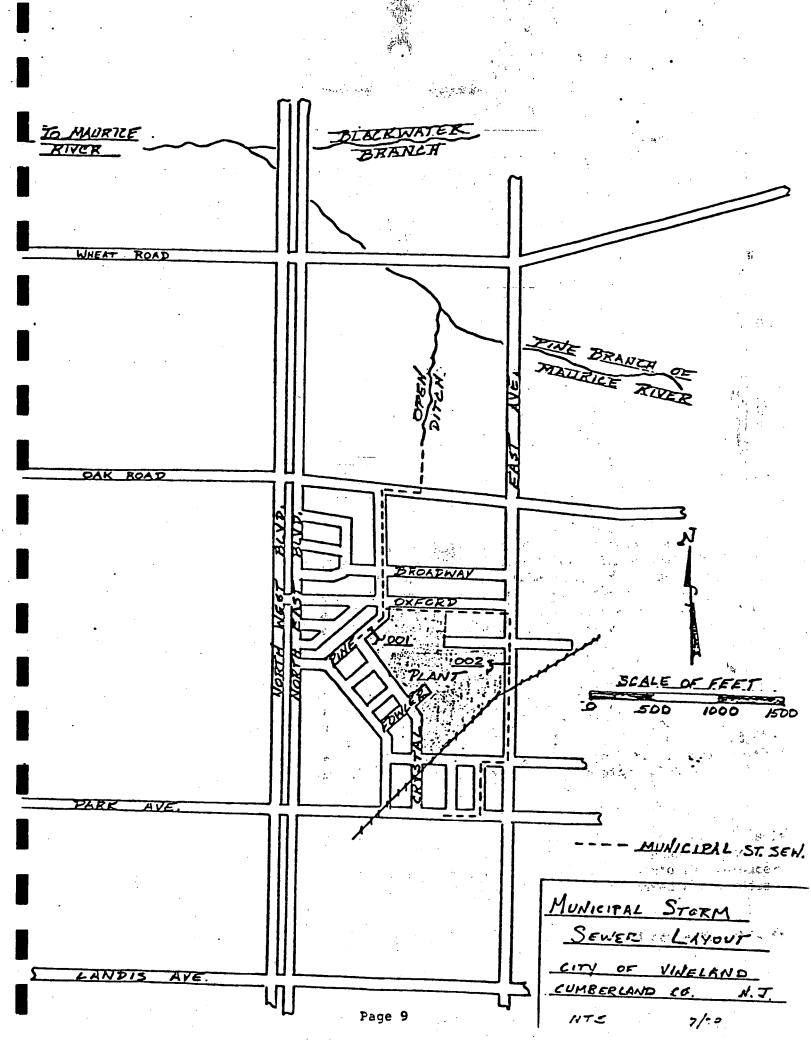
This plan has been certified by the New Jersey Licensed Professional Engineer as indicated.

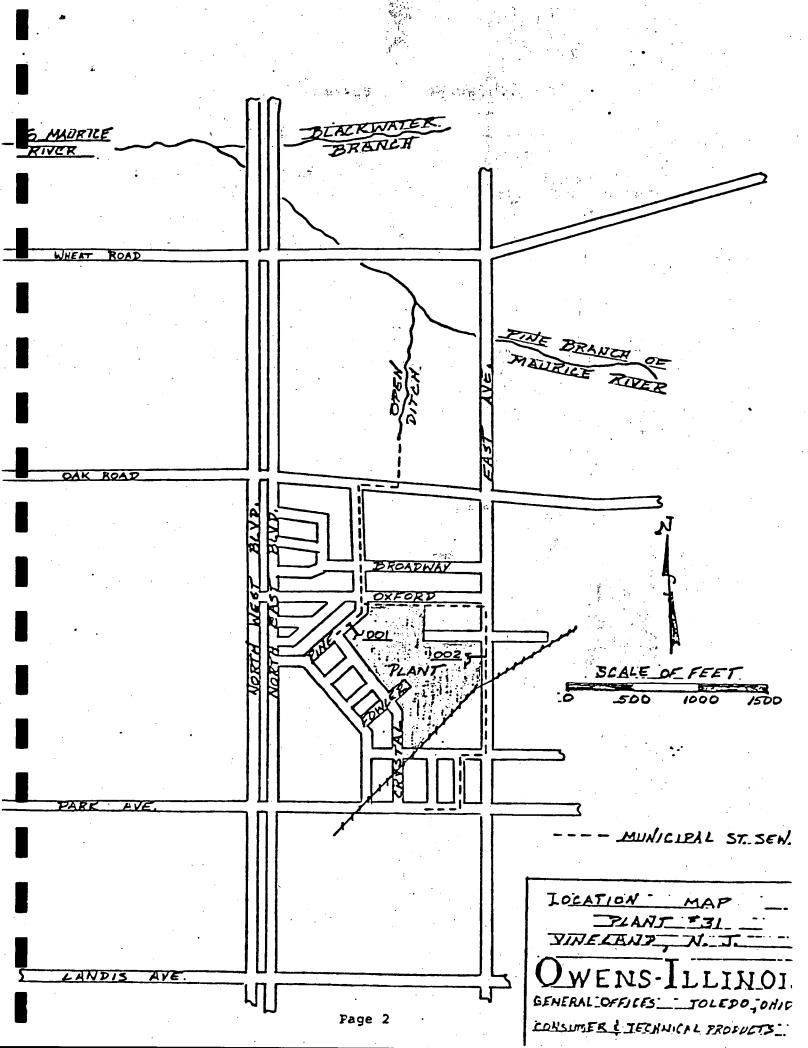
Francin F. Smith - P.E. License #18874











Inspector: Bruce Venner & Date: July 6, 1982

Location: Owens - Illinois Glass Co.

St: Crystal Avenue Property owner: Owens - Illinois

1 Seagate Avenue Taledo, Ohio 43666

Town: Vineland

County: Cumberland

Lot: 1 Block: 330

Origin of Complaint: Charlie Trautman, DHW

Complaint: Investigate the clean-up and disposal of oil spill debris. Determine disposal location and obtain documentation showing this. Advise them on current policy on disposal of above.

Findings:

At approximately 1300 on July 6, 1982, Linda Zaninelli and I arrived at the Owens-Illinois Glass Co. to conduct an investigation. We met with Ms. Michele Tracy, Project Engineer and were able to discuss the process with her.

Process

The process at Owens-Illinois is the production of glassware. The glassware produced at this plant is labratory glassware including flasks, pipettes, test tubes ect. Also produced are coffee pots and lanterns.

There are a total of 7 glass furnaces on this site of which 6 are in operation. The seventh furnace called H tank was used to produce leaded glass. Tanks J,K,L,M and R are called Tube Alley. These tanks produce the glass which is used to produce glass tubes for further production of laboratory glassware. G tank produces glass which is used in paste molds for the production of coffee pots and lanterns. H tank which was used to produce leaded glass has not been in use for approximately one year.

Raw Materials

The raw material for the production of glass is silica or sand. The sands used at this facility are shipped here from around the United States, however most of the sand comes from Illinois. The sand is melted in furnaces and glass is produced. Some of the glass produced here is painted. The paint used has a lead base and is shipped as a powder. To produce the paint into a useable material it is mixed with with pine oil.

Waste Production

The principle waste produced in the production of glass is cullet. This is a slaglike material which floats to the top of the molten glass in the furnaces and consists of impurities. Cullet is put back into the furnace and recycled in the process. This material is not considered a hazardous waste.

The decorating waste is a hazardous waste due to the lead content. This is

M. 0.18/84

the paint used to decorate or mark calabration on the glassware. This waste consists of excess paint, rags, screens, and some imperfect painted glassware. Throughout the facility approximately 8 drums of this waste is produced per month.

Other wastes consist of sweepings from the batch house, solvents, and oils. The batch house sweepings are the dust and debris from the floor in the batch house. The batch house is where the leaded glass was mixed prior to being fired. Ms. Tracy told us that this process was discontinued approximately one year ago, but there may be some lead and arsenic still on the floor or in the dust. Due to this the sweepings from this area are still considered a hazardous waste. Solvents are used at this facility to clean off the production equipment. Solvents used include trichloraethane, varsol and degrease-all. Approximately 1 to 2 drums of solvent are produced per year. Ms. Tracy did not know the waste oil production, however, she was able to tell me that the waste oil tank has a capacity of 1000 gallons and that this tank is emptied by Casie Ecology Oil Salvage, Vineland, NJ once per month.

There are three electrastactic precipitators which cover all of the furnaces on site. Owens-Illinois has BAPC permits for all of these devices. The ESP for H tank #1 is not in operation at this time and has been shut down since the lead glass operation was discontinued. ESP #2 takes care of all of the Tube Alley furnaces and the #3 ESP is connected to G tank. The dust collected from the ESP's can be put back into the furnances. The final waste is called frit. This dust is not considered a hazardous waste and is disposed of at the local landfill. Before a truck load of this waste leaves the facility it is wetted down to reduce dust fly-off.

Spill

On November 9, 1981, Owens-Illinois had a minor fuel oil spill. The attached letter explains this spill in detail. This letter was sent to the USEPA Region II at 26 Federal Plaza, New York, NY 10007 and a copy was sent to NJDEP Office of Hazardous Sub. Cont./Div. of Water Resources, P.O. Box 2809, Trenton, NJ.

Tour

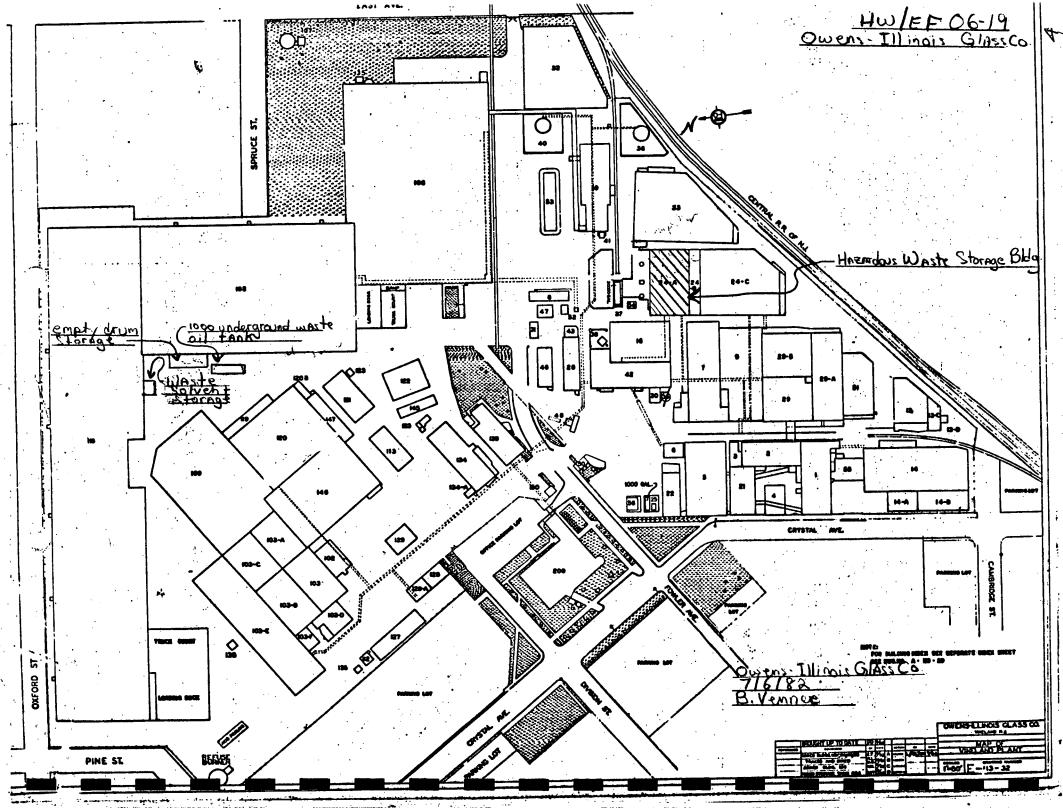
First on our tour of the facility we walked through the process area called Tube Alley. Throughout this area there were 55 gal. drums for waste rags and other paint contaminated materials. The paint used here is a lead based paint and clean-up rags are considered a hazardous waste. The housekeeping in this area was very good. We then proceeded to the waste solvent storage area. This area consists of a diked shed with enough room for a pallet and four 55 gallon drums. The waste solvents are brought here from throughout the facility and put into the drums. Next to the solvent storage area is the empty drums storage area. This area was also clean and orderly. Across from the solvent storage area is the waste oil storage tank. This tank is underground and has a capacity of 1000 gallons.

Our next area of inspection was the H tank (bldg. 24-A) which is near the hazardous waste storage area. This building contains approximately 150 drums of hazardous waste which are all banded and on pallets. These wastes are mostly from the decorating departments throughout the facility. There were also 27 drums of asbestos waste from insulation in furnaces which had been replaced. Also noted were drums containing batch house sweepings, oil contaminated absorbants, and solvents. No leakers or spills were noted and all drums were labeled and seemed to be in good condition. On July 15, 1982, 80 of these drums are scheduled to be disposed of at CECOS in New York. This Owens-Illinois facility is registered as a TSD facility according to RCRA.

Manifest Check

The transporter used by Owens-Illinois is Environmental Transport Group located on Gold Mine Road, Mount Olive, NJ. The TSD used for the hazardous wastes is CECOS. Both facilities located in Ohio or New York are used. Waste oils are collected and transported by Casie'. The disposal facility used is Oil Recovery in Clayton, NJ. The manifests checked included 74159, 74160, 61434, 81478, and 74646. All of these were New Jersey manifests.

At 1430 we left the site.



FILE

KIMBLE

Division of Owens-Illinois HW/EF 06-19 October 20, 1981

Office of the Regional Administrator United States Environmental Protection Agency Region II 26 Federal Plaza New York, New York 10007

CONFIRMATION OF DISCHARGE NOTIFICATION REPORT

On the morning of October 9, 1981, a discharge of oil occurred at the Kimble Division Plant of Owens-Illinois, Inc., in Vineland, New Jersey. This report is intended to satisfy the requirements of 40 CFR 112.4, as well as N.J.A.C. 7:1E-2.2, as they relate to this incident. Because this is the second discharge from our plant in twelve (12) months, our DPCC and DCR/SPCC plans are attached.

Our "L" glass melting furnace was scheduled to be drained at 6:00 A.M. on October 9, 1981. The standard procedure for draining a furnace is to remove the drain block and replace it with a screw plug to control the flow of glass. The glass exits the building via a chute with flowing water to cool and propel the glass. The plug was not inserted quickly enough and the glass flowed out of the furnace, over the chute, and down into the basement of the building. Before reaching the basement, it broke an oil line which supplies #2 low sulfur fuel oil to the other glass melting furnaces in the same building. The hot glass falling on the oil caused a fire to start, but this was extinguished when the oil flow was turned off.

In this building water which flows through the cullet chutes accumulates in the basement and is pumped out automatically. It then flows through our discharge monitoring station at outfall #002 to an open ditch leading to the Pine Branch of the Maurice River. The oil which spilled was floating atop the water in the basement. The members of our plant Spill Response Team took immediate action to contain the oil and took precautionary action for containment and clean up if the oil should be discharged through the pumps. The pumps could not be shut down because the continuous flow of water into the basement would cause flooding. Oil absorbent pads were placed around the pumps in the basement and at our outfall #002.

This office was notified of the incident at 8:00 A.M. At that time only a slight amount of oil had reached the outfall and to our knowledge, none had flowed out of the plant. As a precautionary measure, one boom was placed in the Pine Branch of the Maurice River at Wheat Road and two more booms and some oil absorbent pads were placed upstream in the open ditch behind the trailor park. At that time, no oil had reached these points.

CONFIRMATION OF DISCHARGE NOTIFICATION REPORT (continued)
October 20, 1981
Page #2

Upon returning to the plant, the proper authorities were notified. The incident was reported to Ensign Mitchel of the U.S. Coast Guard at approximately 10:00 A.M., and Charles Troutman of the N.J. DEP at approximately 10:10 A.M. (Case #81-10-9-4). All absorbent pads were checked every few hours and changed as necessary.

It is estimated that no more than 2-3 gallons of oil was discharged from the plant, and to our knowledge, none ever reached past the first boom placed in the open ditch behind the trailor park. Clean up of what little oil did escape was completed by Monday, October 12, but some pads were left in the basement, at outfall #002, and in the open ditch until today, October 20, to insure that all of the oil was removed.

If further information is required relating to this discharge incident, please contact this office at 609-692-3600.

Sincerely,

Michele M. Tracy
PROJECT ENGINEER

attachment

cc: New Jersey Department of Environmental Protection
Office of Hazardous Substance Control/Div. of Water Resources
P.O. Box 2809
Trenton, New Jersey 08625

MMT/ls

DATE Thurs 10/22/81	IME
CALL TAKEN BY	ATTO STATE OF THE
NAME OF COMPLAINTENT	T~ + 11/10
ADDRESS OF COMPLAINTENT	sauman, DITM
PHONE NO. OF COMPLAINTENT 2-556	
MATURE OF COMPLAINT He received a	a call on 10/9/81 from
82 (192-3 (2) Sury of Ou	
(692-3600). She called t	11/1 Coens -
Plurous secently had a	# 2 fuel oil spill in its
PI C	it would clean up He
- spill inhouse. On	10/21 Tracy called Transman
tack to inform him	that the clemen was
- completed. Absorbent	Dalla MADA
drummed and are present	they being stored orsite -
and now many	drums are murched to t
Thought we might want	to check on what Owers
LOCATION Davens - Illinois	dols with Ho
roun Vineland	waste
COUNTY Cumberland	<u> </u>
ASSIGNED TO	
REFERRED TO / / Water Resources	
/ Air Pollution	// Commissioner's Office
Office of Hazardous	// Stream Encroachment
// Substances Control	// Local Officials
<u>//</u> Other	

NJDEP INSPECTION FORM

hrt Prepared for:			·		
Generator	<u>IX</u>	•		*	
Transporter			· .		
(railises)	/X7			· .	
M (TSD) facilities	- 	_ :1itV	Information		
l		Facility		Inc.	
1	N	ame: Owens-	Illinois.	a- Aves	
ļ	<u></u>	Crysta	1 + town	er	
	Addr	ress. Who law	nd Na	030	
		,	B10	ck: 33C	·
	•	`_ \	land		
	C	ounty: CUMB	7 (9) -	3600	.
	•	1/179	1/0		
		Tion NTPO	3023420	6	<u>. </u>
	<u> </u>	PA 100	5/83		
	Prepared for: Generator X/ Transporter TSD) facility IN Facility Information Name: Cusens - Illinois Inc. Address: Crystal + Fowler Aves Vineland, NS: Lot:	. •			
•		_			
		Bru	ce Veni	<u>u</u>	·
	State or EPA P	ersonne i			-u Super.
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•	Facility	personnel:			
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I	Dat	e of Review:	<u>((- (- </u>		
ı					

		FACILITY NAM	1E: Owens -	. Illinois	Inc.
The second secon	•		SS: Crystal Vineland	a Fowler	
TIME IN: 0940		COUN	TY: Cumber		
TIME OUT:		EPA ID	#: N2D00	234208	7
	DATE	OF INSPECTI	ON: 10/5/8	3	····
				•	
PHOTOS TAKEN	/_/ YES	10	NO		
If yes, how many?					
		_			
SAMPLES TAKEN	YES	181	NO NUMBER	R OF SAMPLES	
NJDEP ID #					•
			. ·	· · · · · · ·	
MANIFESTS REVIEWED	/X/ YES	<u>//</u>	NO		
Number of manifests i	n compliance_	ALL		÷	
Number of manifests n	ot in complia	ance	·		
List manife	st document r	numbers of th	ose manifests n	ot in compliar	nce.

Summary of Findings

Facility Description and Operations
The process at Owens. T. Clinais is the production
ab Caloratory and technical grade glassmare.
Products include Claska pipettes test tubes, coffee
pots and lanten a Case.
Hazardors vastes are generated from
processes outlined on page - B- of this report. The
processie are further described in Bruce Venners' report
dated 7/6/82.
Hazardons master are stored in a section
of hulding 24 A. This is an old process Chulching
which is no longer in use. All drung one on
pollets, starked & high and of good integrity.
no Ceakers were noted during this inspection.
Waste al is stored is a 1000 gallow undergrown
tank. I did not see any spills around this touch
or in the facility proper.

Describe the activities that result in the generation of hazardous waste.	
Decorating Waste is generated in the form of	nags serving
and imperfect plassware continuated with load	
ail waste is generated from a marker she	
crarkous of facility relials. The ol	· ·
very generated dirang a 2 week plant	A ()
down.	
Identify the hazardous waste located on site, and estimate the approxiquantities of each. (Identify Waste Codes)	mate
2 · 55 gal - ail absorbants -	
14 - 55 gal dems - desorating made- 2 - 5th lab packs - tead love pouder progrent a	mil aretate
ect -	
6090 - 55 gal drum - Allaming liquide con	vosine -
30 - " " " " " " " " " " " " " " " " " "	generated
from différent department.	8
	
	

GENERATOR INSPECTION CHECKLIST

		YES	NO	N/A
7:26-8.5	Hazardous waste determination			•
	(a) Did the generator test its waste to determine whether it is hazardous?	X		· ·
	Is the waste hazardous?	X		
	Is the generator determining that its waste exhibits a hazardous waste characteristic(s) based on its knowledge of the material(s) or processes used?	X	in so	re curis
	Has hazardous waste been shipped off site since November 19, 1980?	X		
	If yes, how many shipments, off site, have been made and describe the approximate size of an average shipment made on a monthly basis. If facility is a small quantity generator, please explain.	rds i	ol soc	crow 80c
7.06.7.4/-)1	generator, please explain. Shipments are sent off sets in trucklor Approx. 37 manifested loads waste ail is penjed from us touch	uto X	Tarke	1
7:26-7.4(a)1 7:26-7.4(a)4	Does the generator have an EPA ID #? Does each manifest have the following information? Please circle the elements missing and obtain a copy of the incomplete manifests. (List those manifests that are deficient)			
7:26-7.4(a)4i	The generator's name, address and phone number?	×		
7:26-7.4(a)4ii	The generator's EPA ID number?	X		
7:26-7.4(a)4iii	The transporter(s) name, address and phone number?	X		
7:26-7.4(a)4iv	The transporter(s) EPA ID number?	_X		****
7:26-7.4(a)4v	The name, address and phone number of the designated TSD facility?	X		
7:26-7.4(a)4vi	The TSDF's EPA ID number?	X		
7:26-7.4(a)4vii	The name, type and quantity of hazardous waste being shipped, including such particulars as may be required regarding same?	X	· .	

		YES	NO	N/A	
7:26-7.4(a)4viii	Special handling instructions and any other information required on the form to be shipped				
	by the generator?	X-	when	L NICE	SCATY
7:26-7.4(a)5	Before allowing the manifested waste to leave the generator's property, did the generator:			· .	
7:26-7.4(a)5i	Sign the manifest certification by hand?	X		-	•
7:26-7.4(a)5ii	Obtain the handwritten signature of the initial transporter and date of acceptance on the manifest?	X	:		
7:26-7.4(a)5iii	Retain one copy and forward one copy to the state of origin and one copy to the state of destination?	<u>x</u>			
7:26-7.4(a)5iv	Give remaining copies of the manifest form to the transporter?	χ_			
7:26-7.4(f)1	Has the generator maintained facility records since November 19, 1980? (Manifest(s), exception report(s) and waste analysis)	X			
7:26-7.4(h)1	Has the generator received signed copies of portion B (from the TSD facility) of all manifests for waste shipped off site more than 35 days ago?	X	<u>.</u>		
7:26-7.4(h)2	If not,				
	 Did the generator contact the hauler and/or the owner or operator of the TSDF and the NJDEP at 609-292-9877 to inform the NJDEP of the situation, and 			<u> </u>	
	2. Have exception reports been submitted to the Department covering any of these ship- ments made more than 45 days ago?	-		<u>></u>	
	Before transporting or offering hazardous waste for transportation off site, does the generator?				
7:26-7.2(a)	Conspicuously lable appropriate manifest numbers on all hazardous waste containers that are intended for shipment?	$\overline{\chi}$			
7:26-7.2(b)	Insure that all containers used to transport hazardous waste off site are in conformance with applicable DOT regulations (i.e., 49 CFR 171 - 49 CFR 179)?	X			

	YE:	<u> </u>	<u>00</u>	N/A
7:26-9.3	Accumulation time			
•	How is waste accumulated on site?			
	/X/ Containers			
	Tanks (complete HWMF checklist)		•	
	/_/ Aboveground /X/ Below ground	·		
		list		
	/// Piles (complete HWMF checklist)			
7:26-9.3(a)3	Is each container clearly dated with each period of accumulation so as to be visible for inspection?	, <u></u> .		
	Is waste accumulated for more than 90 days?	· <u>-</u> .		
•	If yes, complete HWMF checklist.			

STOP HERE IF THE HAZARDOUS WASTE MANAGEMENT FACILITY (TSD) CHECKLIST IS FILLED OUT.

HAZARDOUS WASTE FACILITY STANDARDS

		YES	NO	N/A	÷
7:26-9.4(b)	Waste Analysis				
7:26-9.4(b)1i	Is there a detailed chemical and physical analysis of a representative sample of the waste(s) or each waste? (At a minimum, this analysis most contain all the information necessary for proper treatment, storage or disposal of the waste.)	<u>X</u>			
7:26-9.4(b)1iii	Does the character of the waste handled at the facility change from day to day, week to week, etc., thus requiring frequent testing? Check only one: Waste characteristics vary All waste(s) are basically the same Company treats all waste(s) as hazardous		X	·	
7:26-9.4(b)2	Is there a written waste analysis plan at the facility?	<u>Y</u>			•
	Does it contain:				
7:26-9.4(2)i	Parameters for which each hazardous waste stream will be analyzed including constituents listed in NJAC 7:26-8.16 and the rational for the selection of these parameters?			<u>X</u> -	converts 266
7:26-9.4(b)2ii	The test methods which will be used to test for these parameters?			X	e gere
7:26-9.4(t)2iii	The sampling method which will be used to obtain a representative sample of the waste to be analyzed?			X	
7:26-9.4(b)2iv	The frequency with which the initial analysis of the waste will be reviewed or repeated to ensure that the analysis is accurate and upto-date?		· · · · · · · · · · · · · · · · · · ·	X	
7:26-9.4(b)2v	For off-site facilities, the waste analysis that hazardous waste generators have agreed to supply? Do waste accepted forms	El «	<u>iti</u>	×	
7:26-9.4(b)2vii	Procedures which will be used to identify changes in waste stream characteristics?			<u> </u>	
7:26-9.4(b)3	Did the owner or operator submit the waste analysis plan to the Department?	X .	********		
	If yes, when was the plan submitted? Hoy	4,19	781.	ىنىد -	wors

		YES	NO	N/A
	Does hazardous waste come to this facility from an outside source? (e.g., another generator)		X	
	If yes, list the name(s) of generators.			
			•	
7:26-9.4(b)4	If waste comes from an outside source, are there procedures in the waste analysis plan to insure that waste received conforms to the accompanying manifest?		·	X
•	Does the plan describe:			÷
7:26-9.4(b)4i	The procedures which will be used to determine the identity of each shipment of waste managed at the facility?			$\overline{\lambda}$
7:26-9.4(b)4ii	The sampling method which will be used to obtain a representative sample of the waste to be identified, if the identification method includes sampling?		· · · · · · · · · · · · · · · · · · ·	X
7:7:26-9.4(h)	Security			
	Does the facility have:			
7:26-9.4(h)1i	A 24 hour surveillance system which continuous monitors and controls entry onto the active portion of the facility?	1y <u>X</u>		
7:26-9.4(h)lii	An artificial or natural barrier, which completely surrounds the active portion of the facility; and a means to control entry, at all times, through the gates or other entrance to the active portion of the facility?	s <u>*</u>	· · · · · ·	
7:26-9.4(h)3	Are there "Danger-Unauthorized Personnel Keep Out" signs posted at each entrance to the facility?	X	-	
· 	If no, explain what measures are taken for security.			

	·			
		YES	NO	<u>N/A</u>
7:26-9.4(f)	General Inspection Requirements			
7:26-9.4(f)1	Does the owner or operator inspect the facility for malfunctions and deterioration, operator errors and discharges which may be causing, or may lead to:			
7:26-9.4(f)li	Discharge of hazardous waste constituents to the environment?	<u> </u>		
7:26-9.4(f)1ii	A threat to human health?	X		
7:26-9.4(f)3	Has the owner or operator developed, and does the owner or operator follow a written schedule for inspecting monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment that are utilized for the prevention, detection or response to environmental or human health?	×		
7:26-9.4(f)3i	Did the owner or operator submit the written inspection schedule to the department?	<u>X</u>		
	If yes, when was it submitted?		,	
7:26-9.4(f)3iii	Is the written inspection schedule kept at the facility?	X	•	
7:26-9.4(f)3iv	Does the schedule identify the types of problems to be looked for during the inspection?	X		
7:26-9.4(f)3v	Does the schedule include the frequency of inspection, based upon the rate of possible deterioration of the equipment and the probability of an environmental, or human health incident if the deterioration or malfunctions or any operator error goes undetected between inspections?	<u>X</u>		 .
7:26-9.4(f)5	Is there evidence that problems reported in the inspection log have been remedied?	X		
7:26-9.4(f)6	Does the owner/operator record inspections in a log?	X		
	Are these records kept for at least three (3) years from the date of inspection?	X		

				• .		
	-4-					
•		YES	<u>NO</u>	N/A		
	Does the records include the date, and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other 'remedial action?	X				
7:26-9.4(g)	Personnel training					
	Have facility personnel successfully completed a program of classroom instruction or on-the-jotraining within 6 months of having been employed?	×				
7:26-9.4(g)2	Is the program directed by a person trained in hazardous waste management procedures and does it include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed?	X	-			
7:26-9.4(g)5	If yes, have facility personnel taken part in an annual review of training?	X-	- 6 ru	onth —		
	Is there written documentation of the following:	1				
7:26-9.4(g)5i	Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job?	X	magamaja.a			
7:26-9.4(g)5ii	A written job description for each position related to hazardous waste management?	X		 .		
7:26-9.4(g)5iii	A written description of the type and amount of both introductory and continuing training given to personnel in jobs related to hazardous waste management?	X				
7:26-9.4(g)5iv	Documentation of actual training or experience received by personnel?	X				
7:26-9.4(g)7	Are training records kept on all employees for at least three (3) years?	X				
7:26-9.4(g)8	Are semi-annual drills conducted involving all employees and appropriate local authorities to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development pursuant to NJAC 7:26-9.7?		X			
	Training is conducted every & me personnel and the Fire Depl a dill every year.	os.f	on K	Casil	lite	
	The state of the s					i

		YES	NO	N/A
7:26-9.6	Preparedness and prevention			
	Does the facility comply with preparedness and prevention requirements including maintaining:			•
7:26-9.6(b)1	An internal communications or alarm system?	X		
7:26-9.6(b)2	A telephone or other device to summon emergency assistance from local authorities?	X		
7:26-9.6(b)3	Portable fire equipment, spill control equipmen and decontamination equipment?	t. <u>/</u>		
7:26-9.6(b)4	Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems?	X		
7:26-9.6(c)	Is equipment tested and maintained?	\times		
7:26-9.6(d)1	Is there immediate access to communications or alarm systems during handling of hazard-ous waste?	X		•
7:26-9.6(e)	Adequate aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment?	X		<u>.</u>
	If no, please explain.	٠.		
	In the same and the turns of the control of the con			•
	In your opinion, do the types of waste on site require all of the above procedures, or are some not required?	X		
	Explain.	<i>-</i>		
			•	
				`
7:26-9.6(f)	Has the facility made the following arrangement as appropriate for the type of waste handled on site?		,	
7:26-9.6(f)1	Familiarize police, fire departments and emergency response teams with the layout of the facility and hazardous waste handled?	×		
		<u> </u>		

7:26-9.6(f)2 Where more than one police and fire department might respond to an emergency, is there an agreement designating primary emergency authority to a specific police or fire department, and agreements with any others to provide support to the primary emergency response contractors, and equipment suppliers? Mackadia and parameters with emergency response contractors, and equipment suppliers? Mackadia and parameters with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility? 7:26-9.6(f)5 Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually? 7:26-9.7(a) Does the facility have a written contingency plan for emergency procedures 7:26-9.7(a) Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or nonsudden release of hazardous waste or hazardous waste constituents to air, soil or surface water? 7:26-9.7(b) Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment? 7:26-9.7(c) Does the contingency plan describe the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or nonsudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility? 7:26-9.7(d) Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with AQ CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasure (DPCC) Plan in accordance with AQ CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasure (DPCC) Plan in accordance with AQ CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasures (SPCC) P	•					
might respond to an emergency, is there an agreement designating primary emergency authority to a specific police or fire department, and agreements with any others to provide support to the primary emergency authority? 7:26-9.6(f)3 Agreements with emergency response contractors, and equipment suppliers? Mactivate and provide with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility? 7:26-9.6(f)5 Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually? 7:26-9.7(a) Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water? 7:26-9.7(b) Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents to air, soil or surface water? 7:26-9.7(c) Does the contingency plan describe the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility? 7:26-9.7(d) Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with A O CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasure (OPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq.? If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with			YES	NO	N/A	
and equipment suppliers? Notice and provided to the supplier of the subject of the supplier of	7:26-9.6(f)2	might respond to an emergency, is there an agreement designating primary emergency authorit to a specific police or fire department, and agreements with any others to provide support to		-		
Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility? 7:26-9.6(f)5 Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually? 7:26-9.7 Contingency plan and emergency procedures 7:26-9.7(a) Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or nonsudden release of hazardous waste or hazardous waste constituents to air, soil or surface water? 7:26-9.7(b) Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment? 7:26-9.7(c) Does the contingency plan describe the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility? 7:26-9.7(d) Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq.? If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with	7:26-9.6(f)3	Agreements with emergency response contractors, and equipment suppliers? Materiali are pure from from from the would prove	seed.	- X	In in a	બ
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Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq.? If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with	7:26-9.7(c)	facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface				
plan to incorporate hazardous waste management provisions that are sufficient to comply with	7:26-9.7(d)	Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention, Containment and Counter- measure (DPCC) Plan in accordance with N.J.A.C.				
		plan to incorporate hazardous waste management provisions that are sufficient to comply with	—		· —	

	•	-7-				
	•					
•	7:26-9.7(e)	Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emer- gency services?	X			
	7:26-9.7(f)	Does the plan list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up-to-date? Where more than one person is listed, one shall be named as primary emergency coordinator and others shall assume responsibility as alternates.	X			
	7:26-9.7(g)	Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required? Is the list kept up-to-date? In addition, does the plan include the location and a physical description of each item on the list, and a brief outline of its capabilities?	<u>X</u>	· .		
	7:26-9.7(h)	Does the plan include an evacuation procedure for facility personnel where there is a possibility that evacuation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evacuation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires)?	<u>×</u> .			
	7:26-9.7(i)	Is a copy of the contingency plan and all revisions to the plan: 1. Maintained at the facility; and	Y			
		2. Has the contingency plan been submitted to local authorities (police, fire depart- ments, emergency response teams)?	X			
	7:26-9.8	Closure plan		نادد	—- ده + د،	gt esti
	7:26-9.8(c)	Does the facility have a written closure plan?	X-			•
	•	Does the owner/operator keep a written copy of the closure plan and all revisions to the plan at the facility?	X			
	•	if wes does the plan include:				

		YES	NO	N/A	
7:26-9.8(e)li	A description of how and when the facility will be partially closed (if applicable) and ultimately closed?				
7:26-9.8(e)lii	The maximum extent of the operation which will be open during the life of the facility?	X			
7:26-9.8(e)2	An estimate of the maximum inventory of wastes in storage or in treatment at any given time during the life of the facility?	X		·	
7:26-9.8(e)3	A description of the steps needed to decontam- inate facility equipment during closure?	X			
7:26-9.8(e)4	A schedule for final closure including the anticipated date when the wastes will no longer be received, the date when completion of final closure is anticipated, and intervening milestone dates which will allow tracking of the progress of closure?	élit 5 sh Seu	t dor	sin in Return	plon the
	Post Closure Plan				
7:26-9.9(g)	Does the facility have a written post-closure plan kept at the facility?		\leq	X	
•	If yes, does the plan:				
7:26-9.9(i)	Identify the activities which will be carried on after closure and the frequency of these activities?		X	*	
7:26-9.9(i)1	Include a description of the planned ground- water monitoring activities and frequencies at which they will be performed?		X	<u> </u>	-
7:26-9.9(i)2	Include a description of the planned main- tenance activities, and frequency at which they will be performed, to insure the following	g:	X	χ	·
7:26-9.9(i)2i	The integrity of the cap and final cover or other containment structures where applicable?		1	$\overline{\lambda}$	•
7:26-9.9(i)2ii	Describe the function of the facility monitoring equipment?		X	X	
7:26-9.9(i)3	Include the name, address and phone number of a person or office to contact about the disposal facility during the post-closure period?		X	X	·
	Does the owner/operator have a written estimate of the cost of post-closure for the facility?) · · ·	×	1	
·	If yes, what is it?				

Please circle all all activities cir			stions on indicated pages for
Storage		Treatment	Disposal
Container - pg. 9		Tank - pg. 12	Landfill - pg. 18
Tank, above ground	- pg. 12	Surface Impoundments - pg	. 15
Tank, below ground	- pg. 12	Incineration - pg. 20	Surface Impoundments - pg. 15
Surface Impoundmen	ts - pg.	15 Thermal Treatment - pg. 2	3 Other
Waste Piles - pg.	17		
Other		Chemical, Physical and Biological Treatment - pg	. 25
		Other	
			YES NO N/A
7:26-9.4(d)	Contain	ers	
	Describe of waste	pe of containers are used for the size, type, quantity are ses (e.g., 12 fifty-five galler acetone) 17-H+ closed top (T') 108 dums C materia	nd nature on drums
7:26-10.4(b)		e a containment system for s nd precipitation?	pills,
	all all	describe the containment sy woother one thousand	d indoors or in dilled
7:26-9.4(d)1i	proof c weld, h suffici side an impairm	containers appear to be of sonstruction of adequate wallinge and seam strength, and ent material strength to with bottom shock, while filled ent of the container's abili hazardous waste?	thickness, of chstand d, without

If no, explain.

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		YES NO	<u>A\N</u>
7:26-9.4(d)1ii	Are the lids, caps, hinges or other closure devices of sufficient strength that when closed, they will withstand dropping, overturning or other shock without impairment of the container's ability to contain hazardous waste?	∡ _	-
	If no, explain.		
7:26-9.4(d)2	Do the containers appear to be in good condition, not in danger of leaking?	X _	
7:26-9.4(d)2	If not, please describe the type, condition and number of leaking or corroded containers. Be detailed and specific.	•	
7:26-9.4(d)4i	Are all containers securely closed, except those in use, so that there is no escape of hazardous waste or its vapors?	Χ	-
	If no, explain.		
			٠.
7:26-9.4(d)4iii	Do containers appear to be properly opened. Handled or stored in a manner which will minimize the risk of the container rupturing or leaking?	<u>X</u>	
	If no. explain.		
7:26-9.4(d)iv	Are containerized hazardous wastes segregated in storage by waste type?	χ	
7:26-9.4(d)y	Are containerized hazardous wastes arranged soltrat their identification label is visible?	X _	
7:26-9.4(d)3	Are nazardous wastes stored in containers made of compatible materials?	X	

		YES	NO	N/A
7:26-9.4(d)5	Does the owner/operator inspect the container storage area at least daily, looking for leaks and for deterioration caused by corrosion or other factors?	X		
7:26-9.4(d)6	Are containers holding ignitable and reactive waste located at least 50 feet (15 meters) away from the facility's property line?	X		
7:26-9.4(a)7i	Are incompatible wastes, or incompatible wastes and materials placed in the same container?		X	
	If yes, explain.			
7:26-9.4(d)7ii	Are hazardous wastes placed in unwashed containers that previously held incompatible wastes?		X	
	If yes, explain.			
7:26-9.4(d)iii	Are containers holding hazardous waste that are incompatible with any waste or other materials stored nearby in other containers, open tanks, or surface impoundments separated from the other materials or protected from them by means of a dike, berm, wall or other device?		×	
7:26-9.4(e)1i	Are ignitable, reactive or incompatible wastes protected from sources of ignition or reaction?	X		· · · · · · · · · · · · · · · · ·
-	If no, explain.			
7:26-9.4(e)lii	Does the owner/operator confine smoking and op flames to specially designated locations when ignitable or reactive wastes are being handled	-/		
	If no, explain.	•		•

		YES	<u>NO</u>	N/A
7:26-9.4(e)1iii	Does the owner/operator conspicuously place "No Smoking" signs whenever there is a hazard from ignitable or reactive waste?	X.		
	I∳ the treatment, storage or disposal of ignitable or reactive waste, and the mixture of incompatible wastes and materials, conducted so that it does not:			
7:26-9.4(e)2i	Generate extreme heat or pressure, fire or explosion, or violent reaction?	<u>X</u> ,		
7:26-9.4(e)2ii	Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health?	X		
7:26-9.4(e)2iii	Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk or fire or explosion?	X		
7:26-9.4(e)2iv	Damage the structural integrity of the device or facility containing the waste?	<u>X</u> .,		
7:26-9.4(e)2v	Threaten human health or the environment?	X		
7:26-11.2	Tanks			
	What are the approximate number and size of tanks containing hazardous waste? 1-1000 gallon underground tonk			
	Identify the waste treated/stored in each tank. Work oils			
	General Operating Requirements			
7:26-11.2(a)2	Are the tanks maintained so that there is no evidence of past, present, or risk of future leaks?	X		
	If no, please explain.			
	Are there leaking tanks?		X	

•				
		YES	<u>NO</u>	<u>N/A</u>
7:26-11.2(a)2	Are all hazardous wastes or treatment reagents being placed in tanks compatible with the tank material so that there is no danger of ruptures corrosion, leaks or other failures?	<u>X</u>		
7:26-11.2(3)	Do uncovered tanks have at least 2 feet of freeboard or an adequate containment structure?			X
7:26-11.2(a)4	If waste is continuously fed into a tank, is the tank equipped with a means to stop the inflow from the tank, e.g., bypass system to a standby tank?			<u>></u>
7:26-11.2(c)	Inspections			
	<pre>Is the tank(s) inspected each operating day for:</pre>			
	 Discharge control equipment Monitoring equipment Level of waste in tank Construction of materials of the tank Are the tanks and surrounding areas (e.g., dike) inspected weekly for 	<u>X</u> - v		文
	leaks, corrosion or other failures?	· ·		X
	Are there underground tanks?			X
	If yes, how many and can they be entered for inspection? tanh can be entered	<u>Z</u> .		 .
7:26-11.2(e)	Are ignitable or reactive wastes stored in a manner which protects them from a source of ignition or reaction?			X
	If no, please explain.			
			•	
7:26-11.2(f)	Does it appear that incompatible wastes are being stored separate from each other?	-		X
7:14A-6	Groundwater monitoring	•		
	(Applies only to: surface impoundments, land-fills, land disposal facilities.)			
· ·				

REFERENCE NO. 36

m DWM-023

NEW JER COMPARTMENT OF ENVIRONMENTAL F **DIVISION OF WASTE MANAGEMENT**

TECTION

06-14-09

File

		INSPECTIO	N REPORT
REPORT	PREPARED FO	R:	
×	Generator		
	Transporter		
×	HWM (TSD)	Facility	
		•	FACILITY INFORMATION
		Name:	OWENS-Illinois Rimale Division
		Address:	FOWLER & CRYSTAL AVE.
			VINELAND, N.J. 08360
		Lot:	Block:33©
		County:	CUMBERLAND
		. Phone:	(609) 692-3600
		EPA ID#:	NJD 002 342 087
		Date of Inspection:	12/15/86
•		,	
			PARTICIPATING PERSONNEL
		State or EPA Personnel:	ERWIN RUTKOWSKI
. •			NJDEP DHWM BFO
	~	Facility Personnel:	WAITER G. WENNER
			ASST. PLANT ENGR EXT 297
	•		
		Report Prepared by Name:	ENWIN RUTKOWSKI
		Region:	, 500 M

Telephone#: (609) 859 - >958

12/19/86 Reviewed by:

Date of Review:

	FACII	LITY NAME:	OWENS-Ilinois, Kimble Div.
	MAILING	ADDRESS:	P.O. Box 230
	•		VINELAND N.J. 08360
TIME IN: 1300		COUNTY:	CUMBERLAND
TIME OUT:		EPA ID :	NJD 002 342 087
	DATE OF I	NSPECTION:	12-15-86
PHOTOS TAKEN	☐ YES	⊠ NO	
If yes, how many? _			
SAMPLE TAKEN	☐ YES	⊠ NO	NO. OF SAMPLES
NJDEP ID#		· ·	
MANIFESTS REVIEWED	¥Z) YES	□ NO	
Number of manifests	s in compliance	PROX	40 To 1/1/86
Number of manifests	s not in compli	anceC	<u> </u>
List manifest de	ocument numb	ers of those n	manifests not in compliance.

SUMMARY OF FINDINGS

FACILITY DESCRIPTION AND OPERATIONS

510 3229- MFG of CONSUMER & Tech. FLASS
WARE - 24 HR 7DAY OPERATION - PROX 1300
PERSONS EmployED AT PRESENT TIMEX
PRIME PRODUCTS LABORATORY AND MEDICINAL
CONTAINER GLASS WARE - TheSE ARE SIL SCREEN
PRINTED with LEAD BASE PAINTS =
The FACILITY HAS A DACC PLAN ON FILE WITH
The Department Duc To STORAGE CAPABILITY
FOR 1,500,000 Gals PROX of LOW Sulfur #2
Fuel oil TACILITY Also USES NATURAL GASX
A copy of this PLAN is in the Red LON
File 06-14-09

Describe the activitie	es that result in the	generation of n	azardous was	πe.		
MAJOR - (CERAMIC DO	=CORATIN,	g W451	E - LE	PAD BAS	ED
	PAINT-					
FIRED O	04- off	SPEC C	NON L	EHRED	GLASS	Alsox
	vents - 11					
	QUID DEGR				,	
Maria - 1/1	VASTE O.	FROM I	nachine	Ry Oct	chance	S Rollin
STOCKS Ve	hicles				<u>- </u>	
	IN DRU	us AN.	O A S	s, mg/e	UNDER	CROUN
	TANK (O	. \				
Identify the hazardo (Identify Waste Code		site, and estim	ate the appro	ximate quan	tities of each.	
20 -	55 G41	DROMS	Decal	ATUR. I	1) A STE	4 <
50	10x Doo		VECOR	41109 0	D KSIE	<i>T</i> 2
<u> </u>						
0 =	55 G41	_	·			5
2-3 -	55 GAI	Derms	LAE	3 Was	TE -	
1 -	TANK AS	Desci	e,BED	ABOU	e X-7	126
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·			·			

GENERATOR INSPECTION CHECKLIST

		YES	NO	N/A
7:26-8.5	Hazardous waste determination	•		
·	(a) Did the generator test its waste to determine whether it is hazardous?		×	
	Is the waste hazardous?	<u>x</u> _		
7:26-8.5(b)2	Is the generator determining that its waste exhibits a hazardous waste characteristic(s) based on its knowledge of the material(s) or processes used?	×		
	Has hazardous waste been shipped off site since November 19, 1980?	X		
Demores F X AREAS CAPECTION PHYSICAPECTION PHYING WRITER	If yes, how many shipments, off site, have been made and describe the approximate size of an average shipment made on a monthly basis. If facility is a small quantity generator, please explain. The To 1/186 checke	D ant	41\ i	= 0 U ND
	HAVE MANIFESTS TO 1980x			
7:26-7.4(a)1	Does the generator have an EPA ID #?	×		
7:26-7.4(a)4 ×	Does each manifest have the following information? Please circle the elements missing and obtain a copy of the incomplete manifests. (List those manifests that are deficient)	<u>×</u>	-	
7:26-7.4(a)4i ×	The generator's name, address and phone number?	<u> </u>		
7:26-7.4(a)4ii ×	The generator's EPA ID number?	<u>×</u>		
7:26-7.4(a)4iii ×	The transporter(s) name, address and phone number?	×	-	-
7:26-7.4(a)4iv x	The transporter(s) EPA ID number?	<u>×</u>		
7:26-7.4(a)4v ×	The name, address and phone number of the designated TSD facility?	<u>×</u>		
7:26-7.4(a)4vi ×	The TSDF's EPA ID number?	×		
7:26-7.4(a)4vii	The name, type and quantity of hazardous waste being shipped, including such particulars as may be required regarding same?	<u>×</u>		

			YES	<u>NO</u>	N/A
7:26-7.4(a)4vii		Special handling instructions and any other information required on the form to be shipped by the generator?	<u>~</u>	-	-
7:26-7.4(a)5	火	Before allowing the manifested waste to leave the generator's property, did the generator:			
7:26-7.4(a)5i	×	Sign the manifest certification by hand?	<u>×</u>		
7:26-7.4(a)5ii	×	Obtain the handwritten signature of the initial transporter and date of acceptance on the manifest?	<u>×</u>		
7:26-7.4(a)5iii		Retain one copy and forward one copy to the state of origin and one copy to the state of destination?	<u> </u>		
7:26-7.4(a)5iv	×	Give remaining copies of the manifest form to the transporter?	×		
7:26-7.4(f)1	X	Has the generator maintained facility records for three (3) years? (Manifest(s), exception report(s) and waste analysis)	<u> </u>		
7:26-7.4(h)1	×	Has the generator received signed copies of portion B (from the TSD facility) of all manifests for waste shipped off site more than 35 days ago?	×		
7:26-7.4(h)2		If not:			
		 Did the generator contact the hauler and/or the owner or operator of the TSDF and the NJDEP at 609-292-9877 to inform the NJDEP of the situation, and 		•	<u>×</u>
		2. Have exception reports been submitted to the Department covering any of these ship- ments made more than 45 days ago?			×
	•	Before transporting or offering hazardous waste for transportation off site, does the generator?			
7:26-7.2(a)	×	Conspicuously lable appropriate manifest numbers on all hazardous waste containers that are intended for shipment?	<u>×</u>		
7:26-7.2(b)	L	Insure that all containers used to transport hazardous waste off site are in conformance with applicable DOT regulations (i.e., 49 CFR 171 - 49 CFR 179)?	×	·	
		· · ·			

- -		YES	NO	N/A
7:26-9.3	Accumulation time			
	How is waste accumulated on site?			
-	Containers Tanks (complete HWMF checklist) Aboveground Surface impoundments (complete HWMF che	•	000 st	G SINGL TAN
	/ Piles (complete HWMF checklist)			,
7:26-9.3(a)3	Is each container clearly dated with each period of accumulation so as to be visible for inspection?	×		
7:26-9.3(a)1	Is waste accumulated for more than 90 days?	<u>×</u>		
	If yes, complete HWMF checklist.			
STOP HERE IF THE	HAZARDOUS WASTE MANAGEMENT FACILITY (TSD) CHECKLIST	T IS F	ILLED	OUT.
TANK	IS EMPTIED VIA MANIFEST TO			
CASIE	UIA VAC TRUCK ON REGULAR	BA	1515	

IN 350-800 GALLON WITHDRAWALSE

	SHORT TERM ACCU FOR 90 DAYS OR	MULATION STANDARDS (FOR GENERATORS WHO ACCUMULATE WILESS)			TAINER
		MOT A 90 DAY GENERAT Containers THESE SECTIONS	YES	NO	<u>N/A</u>
	7:26-9.4	Containers These Sections	N	A	
٠,		What type of containers are used for storage. Describe the size, type and quantity and nature of waste (e.g., 12 fifty five gallon drums of waste acetone).			
	· ·				
	7:26-9.4(d)1i	Do the containers appear to be in good condition, not in danger of leaking?			
		If no, please describe the type, condition and number of leaking or corroded containers. Be detailed and specific.	•		
	7:26-9.4(d)4i	Are all containers securely closed except those in use?	-		
	7:26-9.4(d)4iii	Do containers appear to be properly handled or stored in a manner which will minimize the risk of the container rupturing or leaking?	*******		
	7:26-9.4(d)4iv	Are containerized hazardous waste segregated in storage by waste type?			
	7:26-9.4(d)4v	Is every container arranged so that its identification label is visible?			
	7:26-9.4(d)5	Is the storage area inspected at least daily?			
•	7:26-9.4(d)6	Are containers holding ignitible and reactive wastes located at least 50 feet (15 meters) from the facility's property line?			
	7:26-11.2	Tanks			
	7:26-12.1(a)	Does the generator store hazardous waste in tanks?			
		If yes, what are the approximate number and size of tanks containing hazardous waste?			_

Identify the waste treated/stored in each tank.

	· · · · · · · · · · · · · · · · · · ·			
	•	YES	NO	N/A
	General Operating Requirements		•	
7:26-11.2(a)2	Are the tanks maintained so that there is no evidence of past, present, or risk of future leaks?		****	1
	If no, please explain.			
	•			
	Are there leaking tanks?		-	
7:26-11.2(a)2	Are all hazardous wastes or treatment reagents being placed in tanks compatible with the tank material so that there is no danger or ruptures, corrosion, leaks or other failures?			
7:26-11.2(3)	Do uncovered tanks have at least 2 feet of freeboard or an adequate containment structure?			
7:26-11.2(a)4	If waste is continuously fed into a tank, is the tank equipped with a means to stop the inflow from the tank, e.g., bypass system to a standby tank?			
7:26-11.2(d)	Inspections	•		
	<pre>Is the tank(s) inspected each operating day for:</pre>			
:	 Discharge control equipment Monitoring equipment Level of waste in tank Construction of materials of the tank Are the tanks and surrounding areas (e.g., dike) inspected weekly for leaks, corrosion or other failures? 			#
7:26 - 9.2(b)	Are there underground tanks used to store hazardous waste?			1
	If yes, how many and can they be entered for inspection?	-	- المالية	
7:26-11.2(e)	Are ignitible or reactive wastes stored in a manner which protects them from a source of ignition or reaction?			
•	If no, please explain.			7

		YES	NO	N/A
7:26-11.2(f)	Does it appear that incompatible wastes are being stored separate from each other?			1
7:26-9.4(g)4	Personnel training			
	Have facility personnel successfully completed a program of classroom instruction or on-the-job training since six months after the date of their employment or assignment to the facility or to a new position at the facility?			
7:26-9.4(g)2	Is the program directed by a person trained in hazardous waste management procedures and does it include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed?	(makapu		
7:26-9.4(g)5	If yes, have facility personnel taken part in an annual review of the initial training?		سندني ن	
	Is there written documentation of the following:			
7:26-9.4(g)6i	Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job?		-	
7:26-9.4(g)6ii	A written job description for each position related to hazardous waste management?	-	فسعمت	
7:26-9.4(g)6iii	A written description of the type and amount of both introductory and continuing training that has been and will be given to personnel in jobs related to hazardous waste management?			
7:26-9.4(g)6iv	Documentation of actual training or experience received by personnel?	-	*****	
7:26-9.4(g)7	Are training records kept on all current employees until closure of the facility and training records kept on former employees for three years from their last date of employment?			
7:26-9.4(g)8	Are semi-annual drills conducted involving all employees and appropriate local authorities to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development pursuant to NJAC 7:26-9.7?		***************************************	

7:26-9.6

Preparedness and prevention

Does the facility comply with preparedness and prevention requirements including maintaining:

	-7-			
				٠.
		YES	NO	N/A
7:26-9.6(b)1	An internal communications or alarm system?			1
7:26-9.6(b)2	A telephone or other device to summon emergency assistance from local authorities?			1
7:26-9.6(b)3	Portable fire equipment, spill control equipment, and decontamination equipment?			1
7:26-9.6(b)4	Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems?			
7:26-9.6(c)	Is equipment tested and maintained?	•		1
7:26-9.6(d)1	Is there immediate access to communications or alarm systems during handling of hazard-ous waste?			
7:26-9.6(e)	Adequate aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment?			
	If no, please explain.			\
				\
		•		
	In your opinion, do the types of waste on site require all of the above procedures, or are some not required?			
	Explain.			
7:26-9.6(f)	Has the facility made the following arrangements, as appropriate for the type of waste handled on site:			
7:26-9.6(f)1	Familiarize police, fire departments and emergency response teams with the layout of the facility and hazardous waste handled?			
7:26-9.6(f)2	Where more than one police and fire department might respond to an emergency, is there an agreement designating primary emergency authority to a specific police or fire department, and agreements with any others to provide support to the primary emergency authority?			

			YES	NO	N/A
	7:26-9.6(f)3	Agreements with emergency response contractors, and equipment suppliers?	· 		1
	7:26-9.6(f)4	Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility?			
	7:26-9.6(f)5	Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually?		·	1
	7:26-9.7	Contingency plan and emergency procedures	•		
	7:26-9.7(a)	Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water?		-	
•	7:26-9.7(b)	Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment?	400 magazin	·	
	7:26-9.7(c)	Does the contingency plan describe the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility?			
	7:26-9.7(d)	Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq.?	- Carlotte	-	
		If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section?			
	7:26-9.7(e)	Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services?			
					-

		YES	NO	N/A
7:26-9.7(f)	Does the plan list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up to date? Where more than one person is listed, one shall be named as primary emergency coordinator and others shall be listed in the order in which they will assume responsibility as alternates.		-	
7:26-9.7(g)	Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required? Is the list kept upto-date? In addition, does the plan include the location and a physical description of each item on the list, and a brief outline of its capabilities?			
7:26-9.7(h)	Does the plan include an evacuation procedure for facility personnel where there is a possibility that evaucation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evaucation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires)?			
7:26-9.7(i)	Is a copy of the contingency plan and all revisions to the plan:			
	1. Maintained at the facility; and			
	2. Has the contingency plan been submitted to local authorities (police fire depart- ments, emergency response teams)?			

NA

TRANSPORTER INSPECTION

	·			
		YES	NO	<u>N/F</u>
	Does the transporter carry hazardous waste? If yes, explain.			+
7:26-7.5(c)1	Has the transporter obtained a hazardous waste collector/hauler license from the NJDEP? License #:			+
7:26-7.5(d)1	Does the transporter have an EPA identification number?			
7:26-3.4(h)	Do the vehicle(s) have the NJSWA registration number in letters and numbers at least three (3) inches in height?			
7:26-3.4(h)	Is the capacity of the vehicle marked on both sides of the vehicle in letters and numbers at least three (3) inches in height?			1
7:26-3.4(h)	Is the current NJSWA registration certificate in the vehicle?	 -		1
7:26-3.2(b)	Does the license plate number and registration number on the certificate correspond to the vehicle's license plate number and the regis- tration number displayed on the vehicle?			
7:26-7.5(d)18	Does the transporter have in each registered vehicle a current list of all federal and state agencies to be notified in the event of a discharge of hazardous waste during transportation?			
	How many vehicles were inspected?			
7:26-7.5(d)12	Have the orivers received any instruction or training to do with the handling of nazadital waste?	~		
7:26-7.5(d)15	Is the transporter equipped with emergency equipment in conformance with subpart H of 49 CFR 393? List equipment.			
				,

Revision II

			YES	NO	<u>N/A</u>
	7:26-7.5(f)1i to iv	Has the transporter ever had an unauthorized discharge of hazardous waste during transportation?	· · ·	-	<u> </u>
		If yes, did the transporter:			
	7:26-7.5(f)3i	Give notice, if required by 49 CFR 171.15 to the National Response Center?		_ 	1
	7:26-7.5(f)3ii	Report in writing as required by 49 CFR 171.16 to the Director, Office of Hazardous Materials, Transportation Bureau, Department of Transportation, Washington, DC 20590?		·	
	7:26-7.5(f)3iii	Contact the Department at 609-292-5560 or 609-292-7172?	· 		1
		MANIFESTS			
	7:26-7.5(d)5	Does the transporter have a manifest form to accompany the waste shipment?			1
		Manifest document number:	,		
	7:26-7.3(a)1	If the shipment originated from a site in New Jersey and is destined for another site in New Jersey, is the manifest form one supplied by the NJDEP?			
•	7:26-7.3(a)2	If the shipment originated from a site in another state and is destined for a TSDF in New Jersey, is the manifest form one supplied by the NJDEP or one approved for use in New Jersey by the Department?	-		
	7:26-7.3(a)3	If the shipment originated from a site in New Jersey and is destined for a TSDF in another state, is the manifest form one supplied by the NJDEP or one approved for use by the Department?			
	7:26-7.5(d)11	If the hauler was unable to deliver a manifested load to the designated facility, did they contact the generator and gain further instructions from them?		-	
		If yes, cite generator name and manifest number involved.	•		}

STORAGE FACILITY

HAZARDOUS WASTE FACILITY STANDARDS

· ·			YES	<u>NO</u>	N/A	
7:26-9.4(b)	Waste Analysis					
7:26-9.4(b)1i	Is there a detailed chemica analysis of a representativ waste(s) or each waste? (A analysis most contain all t necessary for proper treatm disposal of the waste.)	ve sample of the At a minimum, this the information	<u>X</u>		****	
7:26-9.4(b)1iii	Does the character of the w the facility change from da week, etc., thus requiring Check only one: Waste characteristics vary All waste(s) are basically Company treats all waste(s)	the same		Χ.		
7:26-9.4(b)2	Is there a written waste an facility?	nalysis plan at the	X _			
7:26-9.4(2)i	Does it contain: Compos ORIGINAL MATER Parameters for which each h stream will be analyzed included in NJAC 7:26-8.16 and the selection of these parameters.	RIAL DESCRIP hazardous waste cluding constituents nd the rational for	PTIC	S P	MH	fier 4
7:26-9.4(b)2ii	The test methods which will for these parameters?	l be used to test	· · · · · · · · · · · · · · · · · · ·		×	&
7 00 0 4/5\0:::	The sampling method which w					
7:26-9.4(b)2iii	obtain a representative sam to be analyzed?	mple of the waste	·		X	•
7:26-9.4(b)2111 7:26-9.4(b)2iv		he initial analysis wed or repeated to			<u>×</u>	
	to be analyzed? The frequency with which the of the waste will be review ensure that the analysis is	he initial analysis wed or repeated to s accurate and up-			<u>×</u>	
7:26-9.4(b)2iv	to be analyzed? The frequency with which the of the waste will be review ensure that the analysis is to-date? For off-site facilities, the that hazardous waste general	he initial analysis wed or repeated to s accurate and up- he waste analysis ators have agreed			х × ×	11718
7:26-9.4(b)2iv 7:26-9.4(b)2v	to be analyzed? The frequency with which the of the waste will be review ensure that the analysis is to-date? For off-site facilities, the that hazardous waste generate supply? Procedures which will be us	he initial analysis wed or repeated to s accurate and up- he waste analysis ators have agreed sed to identify aracteristics?				120PB

		YES	110	N/A
	Does hazardous waste come to this facility from an outside source? (e.g., another generator)		X	
	If yes, list the name(s) of generators.			
7:26-9.4(b)4	If waste comes from an outside source, are there procedures in the waste analysis plan to insure that waste received conforms to the accompanying manifest?			×
•	Does the plan describe:			
7:26-9.4(b)4i	The procedures which will be used to determine the identity of each shipment of waste managed at the facility?	•		×
7:26-9.4(b)4ii	The sampling method which will be used to obtain a representative sample of the waste to be identified, if the identification method includes sampling?	,		×
7:7:26-9.4(h)	Security			
	Does the facility have:			
7:26-9.4(h)1i	A 24 hour surveillance system which continuous monitors and controls entry onto the active portion of the facility?	y _ <u>X</u> _		
7:26-9.4(h)lii	An artificial or natural barrier, which completely surrounds the active portion of the facility; and a means to control entry, at all times, through the gates or other entrances to the active portion of the facility?	· <u>X</u>		
7:26-9.4(h)3 	Are there "Danger-Unauthorized Personnel Keep Out" signs posted at each entrance to the facility?			<u>X</u>
	If no, explain what measures are taken for security.			
	Completely SURROUNDED by FENCE MANAGED 24 HRS/DAY - 7 DAYS	19-	GAT	es
	MANAGED 24 HRS/DAY - 7 DAYS	-64	1	
•	SECURITY UNIFORMED PERSONNEL &			

		YES	NO	<u>N/A</u>
7:26-9.4(f)	General Inspection Requirements			
7:26-9.4(f)1	Does the owner or operator inspect the facility for malfunctions and deterioration, operator errors and discharges which may be causing, or may lead to:	:		
7:26-9.4(f)li	Discharge of hazardous waste constituents to the environment?	×		
7:26-9.4(f)lii	A threat to human health?	工		-
7:26-9.4(f)3	Has the owner or operator developed, and does the owner or operator follow a written schedule for inspecting monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment that are utilized for the prevention, detection or response to environmental or human health?	×		ı.
7:26-9.4(f)3i	Did the owner or operator submit the written inspection schedule to the department?		<u>×</u>	- 12/19/86 01C B PAS 503 MITTE
·	If yes, when was it submitted?			DE NAVIO
		•		70
7:26-9.4(f)3iii	Is the written inspection schedule kept at the facility?	×		
7:26-9.4(f)3iv	Does the schedule identify the types of problems to be looked for during the inspection?	<u>X</u> .		
7:26-9.4(f)3v	Does the schedule include the frequency of inspection, based upon the rate of possible deterioration of the equipment and the probability of an environmental, or human health incident if the deterioration or malfunctions or any operator error goes undetected between inspections?	X .		
7:26-9.4(f)5	Is there evidence that problems reported in the inspection log have been remedied?	X		
7:26-9.4(f)6	Does the owner/operator record inspections in a log?	<u>X</u> .	_	·
	Are these records kept for at least three (3) years from the date of inspection?	×		

	•			
		YES	NO	N/A
	Does the records include the date, and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial action?	X		
7:26-9.4(g)	Personnel training			
	Have facility personnel successfully completed a program of classroom instruction or on-the-job training within 6 months of having been employed?	<u>X</u> .		
7:26-9.4(g)2	Is the program directed by a person trained in hazardous waste management procedures and does it include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed?	<u>×</u>		
7:26-9.4(g)5	If yes, have facility personnel taken part in an annual review of training?	X		
	Is there written documentation of the following:	<u>x</u>		
7:26-9.4(g)6i	Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job?	X		-
7:26-9.4(g)6ii	A written job description for each position related to hazardous waste management?	X		
7:26-9.4(g)6iii	A written description of the type and amount of both introductory and continuing training given to personnel in jobs related to hazardous waste management?	<u>X</u> _		•••
7:26-9.4(g)6iv	Documentation of actual training or experience received by personnel?	X		
7:26-9.4(g)7	Are training records kept on all current employees until closure of the facility and training records kept on former employees for 3 years from their last date of employment?	X	***************************************	
7:26-9.4(g)8	Are semi-annual drills conducted involving all employees and appropriate local authorities to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development pursuant to NJAC 7:26-9.7?	×		
	DONE ON ANNUAL DASIS PER AG WITH LOCAL AUTHORITIES— Revision II 9/6/84 WCH	skee	men	T

,		YES	NO	N/A
7:26-9.6	Preparedness and prevention			
	Does the facility comply with preparedness and prevention requirements including maintaining:	·		
7:26-9.6(b)1	An internal communications or alarm system?	X		
7:26-9.6(b)2	A telephone or other device to summon emergency assistance from local authorities?	<u>×</u>		
7:26-9.6(5)3	Portable fire equipment, spill control equipment and decontamination equipment?	t, <u>X</u>		
7:26-9.6(b)4	Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems?	<u>X</u>		
7:26-9.6(c)	Is equipment tested and maintained?	<u>×</u>		
7:26-9.6(d)1	Is there immediate access to communications or alarm systems during handling of hazard-ous waste?	<u>×</u> .		
7:26-9.6(e)	Adequate aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment?	<u> </u>		****
	If no, please explain.	•		•
	In your opinion, do the types of waste on site require all of the above procedures, or are some not required?	×_		
	Explain.			
·				•
7:26-9.6(f)	Has the facility made the following arrangements as appropriate for tye type of waste handled on site?	, <u>X</u> .		
7:26-9.6(f)1	Familiarize police, fire departments and emergency response teams with the layout of the facility and nazardous waste handled?	×		

••		YES	<u>NO</u>	N/A
7:26-9.6(f)2	Where more than one police and fire department might respond to an emergency, is there an agreement designating primary emergency authori to a specific police or fire department, and agreements with any others to provide support t the primary emergency authority?	。 、 、		
7:26-9.6(f)3	Agreements with emergency response contractors, and equipment suppliers?	es X	-	
7:26-9.6(f)4	Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility?	×		-
7:26-9.6(f)5	NATL CONTRACT: OHMATERIALS Also. Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually? Done on Annual basis Per	× AGR	 Leemo	WT.
7:26-9.7	Contingency plan and emergency procedures			
7:26-9.7(a)	Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water?			
7?26-9.7(b)	Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment?	× .		
7:26-9.7(c)	Does the contingency plan describe the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility?	<u>×</u> .		
7:26-9.7(d)	Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention. Containment and Countermeasure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq.? STORAGE OF 1,500,000 No.2 Low Sulfur Fuel Gas Also If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section?	<u>×</u>		· ·

7:26-9.7(e)	Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emer- gency services?	<u>K</u>		-
7:26-9.7(f)	Does the plan list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up-to-date? Where more than one person is listed, one shall be named as primary emergency coordinator and others shall assume responsibility as alternates.	<u>,</u>		-
7:26-9.7(g)	Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), wher this equipment is required? Is the list kept up-to-date? In addition, does the plan include the location and a physical description of each item on the list, and a brief outline of its capabilities?	e		
7:26-9.7(h)	Does the plan include an evacuation procedure for facility personnel where there is a possibility that evacuation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evacuation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires)?	<u>×</u> .		
7:26-9.7(i)	Is a copy of the contingency plan and all revisions to the plan:			
	 Maintained at the facility; and 	X		
,	2. Has the contingency plan been submitted to local authorities (police, fire depart- ments, emergency response teams)?	丛		
7:26-9.8	Closure plan			
7:26-9.8(c)	Does the facility have a written closure plan?	X		
•	Does the owner/operator keep a written copy of the closure plan and all revisions to the plan at the facility?	<u>x</u>		
	If yes, does the plan include:			

		YES	<u>NO</u>	N/A
7:26-9.8(e)1i	A description of how and when the facility will be partially closed (if applicable) and ultimately closed?	<u>×</u> .		
7:26-9.8(e)lii	The maximum extent of the operation which will be open during the life of the facility?	<u>×</u> .		
7:26-9.8(e)2	An estimate of the maximum inventory of wastes in storage or in treatment at any given time during the life of the facility?	<u>×</u> _		
7:26-9.8(e)3	A description of the steps needed to decontam- inate facility equipment during closure?	X		
7:26-9.8(e)4	A schedule for final closure including the anticipated date when the wastes will no longer be received, the date when completion of final closure is anticipated, and intervening milestone dates which will allow tracking of the progress of closure?	×		
	Post Closure Plan	·		
7:26-9.9(g)	Does the facility have a written post-closure plan kept at the facility? NOT Applicable If yes, does the plan:		X	
7:26 - 9.9(i)	Identify the activities which will be carried on after closure and the frequency of these activities?			<u></u> _ <u></u>
7:26-9.9(i)1	Include a description of the planned ground- water monitoring activities and frequencies at which they will be performed?			X
7:26-9.9(i)2	Include a description of the planned main- tenance activities, and frequency at which they will be performed, to insure the following			. <u>×</u>
7:26-9.9(i)2i	The integrity of the cap and final cover or other containment structures where applicable?	 -		X
7:26-9.9(i)2ii	Describe the function of the facility monitoring equipment?			×
7:26-9.9(i)3	Include the name, address and phone number of a person or office to contact about the disposal facility during the post-closure period?	-		×
	Does the owner/operator have a written estimate of the cost of post-closure for the facility?			<u>x</u>
.	If yes, what is it?			

Please circle all appropriate activities and answer questions on indicated pages for all activities circled.

Storage	Treatment	Disposal
Container (pg. 9)	Tank - pg. 12	Landfill - pg. 18
Tank, above ground	- pg. 12 Surface Impoundments - pg. 1	5
Tank, below ground	-pg. 12 Incineration - pg. 20	Surface Impoundments - pg. 15
Surface Impoundment	s - pg. 15 Thermal Treatment - pg. 23	Other
Waste Piles - pg. 1	7	
Uther	Chemical, Physical and Biological Treatment - pg. 2	5
	Other	
		YES NO N/A
7:26-9.4(d)	Containers	
· ×	What type of containers are used for s Describe the size, type, quantity and of wastes (e.g., 12 fifty-five gallon of waste acetone) 55 GAllon	nature drums
7:26-10.4(b)	Is there a containment system for spilleaks and precipitation? 100000 CONCRETE Floor-GA Is yes, describe the containment system	XX
•		
7:26-9.4(d)1i 火	Do the containers appear to be of sturproof construction of adequate wall the weld, hinge and seam strength, and of sufficient material strength to withst side and bottom shock, while filled, wimpairment of the container's ability contain hazardous waste?	aickness. Cand Vithout
•	If no. explain.	

	·		YES	NO	N/A
7:26-9.4(d)1ii	/	Are the lids, caps, hinges or other closure devices of sufficient strength that when closed, they will withstand dropping, overturning or other shock without impairment of the container's ability to contain hazardous waste?	¥		
	٠	If no, explain.			
7:26-9.4(d)2	X	Do the containers appear to be in good condition, not in danger of leaking?	×		
7:26-9.4(d)2	X	If not, please describe the type, condition and number of leaking or corroded containers. Be detailed and specific.			
7:26-9.4(d)4i	× .	Are all containers securely closed, except those in use, so that there is no escape of hazardous waste or its vapors?	<u>×</u>		
		If no, explain.			
· .					
7:26-9.4(d)4iii	×	Do containers appear to be properly opened, handled or stored in a manner which will minimize the risk of the container rupturing or leaking?	<u>×</u> .		
		If no, explain.			
7:26-9.4(d)iv	X	Are containerized hazardous wastes segregated in storage by waste type?	<u>X</u> .		
7:26-9.4(d)v	X .	Are containerized hazardous wastes arranged so that their identification label is visible?	×		
7:26-9.4(d)3	L	Are hazardous wastes stored in containers made of compatible materials?	*		

·			YES	NO	N/A
7:26-9.4(d)5	X	Does the owner/operator inspect the container storage area at least daily, looking for leaks and for deterioration caused by corrosion or other factors?	X		
			△.		
7:26-9.4(d)6	X	Are containers holding ignitable and reactive waste located at least 50 feet (15 meters) away from the facility's property line?	<u>×</u>		
7:26-9.4(d)7i	X	Are incompatible wastes, or incompatible wastes and materials placed in the same container?		· 	
		If yes, explain.			
7:26-9.4(d)7ii		Are hazardous wastes placed in unwashed			
	X	containers that previously held incompatible wastes?	X	· ——	
		If yes, explain.			
•					
	٠				
7:26-9.4(d)7iii	又	Are containers nolding hazardous waste that are incompatible with any waste or other materials stored nearby in other containers, open tanks, or surface impoundments separated from the other materials or protected from them by means of a dike, berm, wall or other device?	<u>×</u>		
7:26-9.4(e)1i	X	Are ignitable, reactive or incompatible wastes protected from sources of ignition or reaction?	<u> </u>		
•		If no, explain.			
					••
7:26-9.4(e)lii	×	Does the owner/operator confine smoking and ope flames to specially designated locations when ignitable or reactive wastes are being handled?			
		If no, explain.			

	YES NO N/A
7:26-9.4(e)liii ⊁	Does the owner/operator conspicuously place "No Smoking" signs whenever there is a hazard from ignitable or reactive waste?
	If the treatment, storage or disposal of ignitable or reactive waste, and the mixture of incompatible wastes and materials, conducted so that it does not:
7:26-9.4(e)2i	Generate extreme heat or pressure, fire or explosion, or violent reaction?
7:26-9.4(e)2ii	Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health?
7:26-9.4(e)2iii	Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk or fire or explosion?
7:26-9.4(e)2iv	Damage the structural integrity of the device or facility containing the waste?
7:26-9.4(e)2v	Threaten human health or the environment?
7:26-11.2	Tanks
	What are the approximate number and size of tanks containing hazardous waste?
	NOT Applicable -
	Identify the waste treated/stored in each tank.
	General Operating Requirements
7:26-11.2(a)2	Are hazardous wastes or treatment reagents placed in the tank that could cause the tank or its inner liner to rupture, leak or corrode?
	If yes, please explain.
	Are there leaking tanks?

		YES	NO	N/A
	Are all hazardous wastes or treatment reagents being placed in tanks compatible with the tank material so that there is no danger or ruptures corrosion, leaks or other failures?	s, ×		
	Do uncovered tanks have at least 2 feet of freeboard or an adequate containment structure?			<u>×</u>
7:26-11.2(a)4	If waste is continuously fed into a tank, is the tank equipped with a means to stop the inflow from the tank, e.g., bypass system to a standby tank?		·	×
7:26-11.2(c)	Inspections			
a e	Is the tank(s) inspected for:		-	
	 Discharge control equipment (each operating day) Monitoring equipment (each operating day) Level of waste in tank (each operating day) Construction of materials of the tank (weekly) 			× × × ×
	5. Are the tanks and surrounding areas (e.g., dike) inspected weekly for leaks, corrosion or other failures (weekly)?	. Calles		<u>×</u>
7:26-9.2(b) ×	Are there underground tanks used to store hazardous waste? /OOGGALOIL	<u>X</u> _	-	
×	If yes, how many and can they be entered for inspection?			<u>×</u>
	Has the underground tank been in use on or before November 19, 1980? Specify date.	X		
<u>-</u> -	If no, when was the tank placed in use?			
7:26-11.2(e)	Are ignitable or reactive wastes stored in a manner which protects them from a source of ignition or reaction?			<u>x</u>
	If no, please explain.			

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•	YES NO	N/A
7:26-11.2(f)	Does it appear that incompatible wastes are being stored separate from each other?	
7:26-9.2(b)3i	Does the facility have a groundwater monitoring plan approved by the Department? NOT REQUIRED AS OF PRESENT	
7:26-9.2(b)3ii	Is the use of the tank specified to the manufacturers recommended lifetime?	
7:26-10.5(e)6	Are the underground tanks subjected to periodic integrity testing? STICK ON WEEKLY RASIS FOR LOSS	

REFERENCE NO. 37

Form 0WM-029 1/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WASTE MANAGEMENT

INSPECTION REPORT

REPORT PREPARED FOR:	•	
☑ Generator		
☐ Transporter		
☐ HWM (TSD) Fa	cility	
	· · · · · · · · · · · · · · · · · · ·	FACILITY INFORMATION
		Kimble Glass Inc Division of Owens - Illinois
•	Address:	P.O. Box 230, Vindand, New Tersey 08360
	Lot:	Block:330
	County:	- Cumberland Vineland City
	Phone:	(609) - 692 - 3600 Ext. 297
	EPA ID#:	NTD002342087
	Date of Inspection:	August 02,1989
	•	3
		PARTICIPATING PERSONNEL
	State or EPA Personnel:	Scott From - Burgar of Hozardow
		Waste Engineering; Wayne Mounts - BSE,
	Facility Personnel:	Walter G. Wenner - Assistant
		Plant Engineer
F	Report Prepared by Name:	R. Wayne Mounts
	Region:	Southern
••	Telephone#:	(609) - 346-8000
	Reviewed by:	Teny W Oshander
	Date of Review:	0 1011189
	Deta Ut Navidw:	

SUMMARY OF FINDINGS

FACILITY DESCRIPTION AND OPERATIONS

Kimble Glass, Inc. (sic 3229) is a manufacturer
of consumer, scientific and technical glass ware. The
facility operates 3 shifts and is a 7-day per week
operation. Kimble Glass, Inc. employes approximately 1000-
1300 persons.
The primary products manufactured at Kimble Glass
Inc. (K.G.) are laboratory and medicinal container
glassionie. The glassione is silkscreened and printed with
lead (DOOR waste by-product) base points.
According to a report on file dated 12/15/86, the
facility has a DPCC or "Discharge Prevention, Containment
and Countermeasure Plan on file with the Department
due to a storage capability for 1,500,000 gallons of
low sulfur * a fuel oil product. The focility also utilizes
natural gas

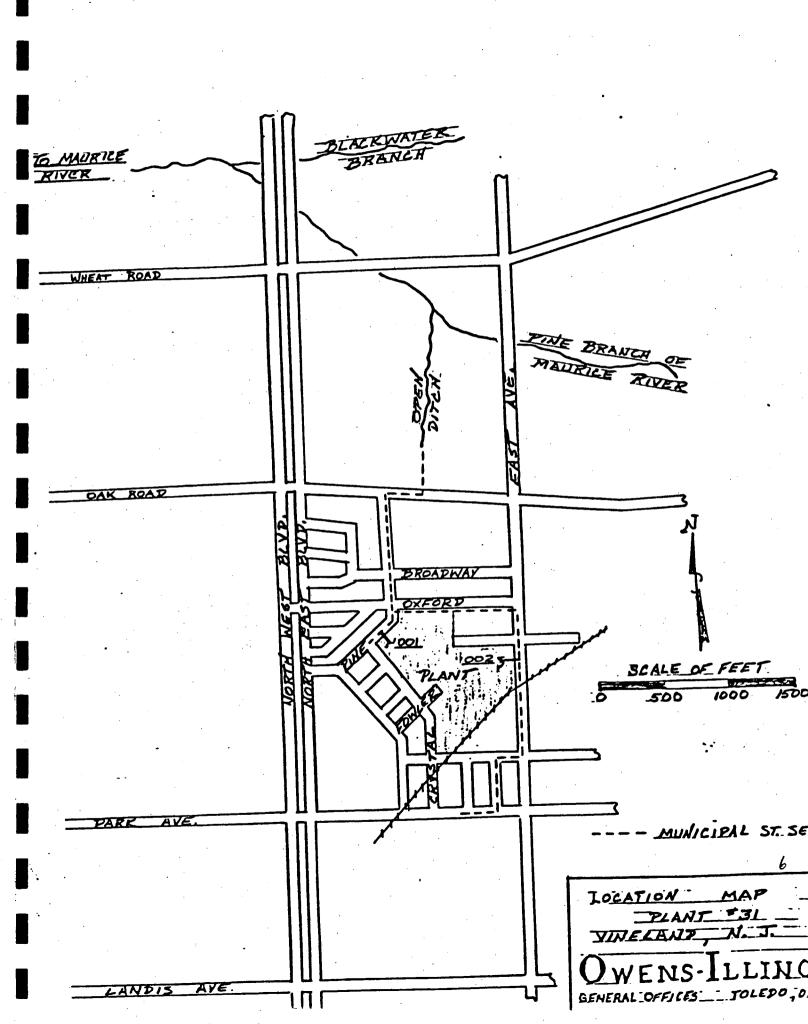
Department * 2821 at Kinthe Glass Inc. (decorating Area) produces a DOOR waste stream. The DOOR waste is placed in \$5 gal. Steel drums and manifested off site. DOOR waste is also generated via K.G. Furnace repairs. (approximately every 2 years). Waste oil is also produced via K.G. machinery. Identify the hazardous waste located on site, and estimate the approximate quantities of each. (Identify Waste Codes) Satellite Accumulation Area I - I full 55 gal. DOOR Building 13 (Hazardous Waste Strage Area) A Approximately & Jaogal Fiber drums - DOOR S. pallet load of paint came (approx 28) Labeled so DOOR C. Ora, 40 gal. Fiber drum of Cr (DOOT) wate.	Describe the activities that result in the generation of hazardous waste.
produces a Door waste stream. The Door waste is placed in 55 gal. Steel drums and manifested off site. Door waste occasional is also generated via K.G. furnace repairs. (approximately every 2 years). Waste oil is also produced via K.G. machinery. Identify the hazardous waste located on site, and estimate the approximate quantities of each. (Identify Waste Codes) Satellite Accumulation Area I - I full 55 gal. Door Building 13 (Hazardous Waste Storage Area) A. Approximately 6 140 gal. Fibr. drums - Door	Department # 2821 at Kimble Glass Inc. (decorating Area)
in 55 gal. Steel drums and manifested off site. DOOT waste occasional via K. G. furnace repairs. (approximately every 2 years). Wante oil is also produced via K. G. machinery. Identify the hazardous waste located on site, and estimate the approximate quantities of each. (Identify Waste Codes) Satellite Accumulation Area I - I full 55 gal. Doop Building 13 (Ha Eardous Waste Storage Area) A. Approximately to 140 gal. Fibra drums - Doop 5. pallet load of paint cano (approx 25) labeled so Doop	
is also generated via K.G. furnace repairs. (approximately every 2 years). Waste oil is also produed via K.G. machinery. Identify the hazardous waste located on site, and estimate the approximate quantities of each. (Identify Waste Codes) Satellite Accumulation Area I - I full 55 gal. Doop Building 13 (Hazardous Waste Storage Area) A Approximately 6 40 gal. fibra drums - Doop B. pallet load of paint cano (appex 25) labeled so Doop	
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Satellite Accumulation Area I - I full 55 gal. Doop Building 13 (Hazardous Waster Storage Area) A. Approximately G 40 gal. fiber drums - Doop B. pallet load of paint cano (approx 25) Labeled as Doop	
Building 13 (Hazardous Waster Storage Area) A Approximately be 140 gal. fiber drums - DOOR B. pallet load of paint came (approx 25) labeled as DOOR	
Building 13 (Hazardous Waster Storage Area) A Approximately be 140 gal. fiber drums - DOOR B. pallet load of paint came (approx 25) labeled as DOOR	Satallita American American David
A. Approximately 6 40 gal. f. ben drums - DOOR S. pallet load of paint came (approx 25) labeled so DOOR	Datelline liceumuration prea 1: 1 +ull 53 gal. Door
A. Approximately G 40 gal. f. ben drums - DOOR B. pallet load of paint came (approx 25) labeled so DOOR	211 12 (1)
s. pallet lond of paint cano (approx 25) labeled on 2008	
c. One, 90 gal. fiber drum of Cr (DOOT) water	s. pallet load et paint cano (approx 25) labeled as DOOR
C. One, 40 gal. fiber drum at Cr (Door) water	
	c. One, 40 gal. tiber drum at Cr (DODT) water

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	YES (At		he delisti es of reco	•			
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490	day	accum	ulation	Store	<u> </u>		
ldentify :	the hazard	lous waste	located o	nsite, and	l estimate	the appr	oximate
			fy Waste C			• •	
See	OCC VIOL	a des		•			
							
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	YES NO (Explain)	· ·		
(sc	e S. Frow's	report)		
		, , , , , , , , , , , , , , , , , , , 		Patrick St. D. D. Delderde de Laure en des des

•				
				
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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE MANAGEMENT HAZARDOUS WASTE INSPECTION REPORT

DWM-829

HAZARDOUS WASTE PERMIT FACILITY INSPECTION REPORT

FACILITY INFORMATION

FACILITY NAME: KIMBLE GLASS DIV OF BUEN TIL.
FILE NUMBER: 66-14-09
VHT FACILITY FILE NUMBER:
PERMIT #:
REGION: South
INSPECTION DATE: 11/13/90
INCIDENT/CASE NUMBER:
INSPECTION TYPE: DCRA CE, PAC
RESPONSIBLE AGENCY CODE:
INSPECTOR'S NAME: BEN WILBUR
INSPECTOR'S AGENCY: WIDEP
INSPECTOR'S BUREAU: Itw mgT
EPA ID NUMBER: NTD 002342087
ADDRESS: 537 CRYSTAL ST.
VINELAND NT 08360
LOT: BLOCK:
COUNTY: CUMBERIAND
FACILITY PERSONNEL: MR WANTER WENNER
TELEPHONE 4: (609) 692-3600
OTHER STATE/EPA PERSONNEL:
REPORT PREPARED BY: BWILBUR!
REVIEWED BY: Kinds Kange
DATE OF REVIEW: $\frac{2/27/9}{}$

Ryvised 10/90 JM		•	
PHOTOS TAKEN () YES (SAMPLE TAKEN () YES (_) NO	IF YES, H	OW MANY?
SAMPLE TAKEN () YES (<u>/</u>) NO	NO. OF SA	MPLES
NUTER SAMPLE ID #:			
		4	
SITE B	ACKGROUND	INFORMATION	
EMPLOYEES: 1300± DATE OPERAT	IONS BEGUN	: 1910 8 hr	SHIFTS/WEEK: 3
ACRES: 60 # BUILDINGS/S	iqft: _ 60/	SIC CO	DDE <u>:</u>
PRODUCTS PRODUCED: glass tu	bing and	glass veals of	various dimensus
VOLUME PRODUCED (or \$ value): _			
PREVIOUS OPERATIONS AT SITE:	alway a g	lass glant	
		•	
WATER SUPPLY: 6 wells; usin	g about	2,000,000/day	
MONITORING WELLS (explain):			
plone in the company of the company			
SANITARY DISPOSAL:			
FLOOR DRAINS:			•
AIR PERMITS: . Stack permit	5; 15 Sh	cks	
NJPDES PERMITS: water discher			S .
PERMITS - OTHER:		:	
PREVIOUS ENFORCEMENT HISTORY (min 2 yrs):		
TANKS ON SITE (non hazardous w	aste):		
		; 1-30,000	all no a fuel oil
1-197,000; 1-26,000; 2 touber for fuel to fue abo 1-500 and 1-250 gold	maces, &	roles melud	ing steam healing
ebo 1-300 and 1-250 gal d	cesel tank	; 1-4000 gol	jasolnie tahk
COMMENTS: There were no la	Alon u	alilo	•
J. T. TOWN THE PARTY			

INSPECTION & GENERAL FACILITY DESCRIPTION & OPERATIONS Include site map when appropriate

The facility manufactures gloss tubing in a
variety of sizes, took re dismeters "4-1"
tubing can he sold directly but is also used on sate
to further manufacture vials for the personal dare
and medical industry. This overall operation
amounts to 95% of Kentles on site manufacturery.
In addition they do make wakers, flash, the
all production modres the use freuse of boroselect
gless.
as part of this operation, veals may also be
muched using a silk screen type process
which applies a lead containing prymented
coating & the glass; fixing the glass bonds the
Coating to the class morning is a cremiting
bout bound integral part I the glass.
(add additional pages as needed

HAZARDOUS WASTE GENERATION

Wast	te is generated as follows.
	waste oil prater
	derived from machine manufacture / working
	z glass.
₽-·C-3	13 Hg contaminated soil. This is not a typical
	voite but was generated as a result of Hy Spells
	anto a soil area. This was part I am ECRA Cleanu
F001 h	aste; degressing, sohent wals in machine cleaning
	rete: degressing sohent wold in machine cleaning
D001 V	vaste also machine cleaning / Tool Cleaning
	hydrocarbon material FP < 140°F
D007	- waste Firebrick containing Chromium
	has been generated in the grast when Jurnares
	and rednied
D008	- Waste from the selh screen glass Coating
	process using lead antaining pregnent.
	see also attached Resords
.:	
	(add additional pages as needed

GENERATOR CHECKLIST

•	
GENERAL 7:26	
7.4(a)1	Does the Generator have an EPA ID
	Does the generator generate/store *100 kg of hazardous waste (lkg acutely) or only *1001 gal of waste oil in any given month? (except x725 - 100 kg rule applies)
	If no, does the generator wish to delist? If the generator wishes to delist, do a delisting inspection.
12.1(a)	Is the site <u>ACTING</u> as a TSDF by: (no Part A or B)
	Treatment of a hazardous waste?
	Storage of hazardous waste in underground tanks?
	Hazardous wastes placed in piles or surface impoundments?
	Disposal of hazardous waste on site (ie landfill, injection well)?
	Accumulation of hazardous waste for more than 90 days?
	COMMENT: some draws in storage for ~ 5/0 months - well be removed - see below
•	
9.3(a)1	Is site acting as a generator but accumulating waste (containers or approved tanks) over 90 days?
	COMMENT: Site had 4 dresmo stored >50 days.

Site had 4 drems 5 tree >50 days.

material lester as 14.W. but

may not be - not sure, analysis not clear
but drems are coded as Dest C-313 waste

and disposed of in past as C-313

Some analysis suggested waste was aggardens
for mercung but C-313 code was not usued

SOLID WASTE DETERMINATION

1.6 (b)	which m These w or cont can no These m (i.e. w air pol	e Generator produce any materials eet the definition of a "solid waste". ould include any solid, liquid, semi-solid ained gaseous material which has served tonger serve its original intended use. aterials include spent material, sludges astewater treatment sludge or material filution control equipment), by-products, ed commercial chemical products, scrap me idues?	rom	
Is mate:		d or intended to be discarded		
2.	or biolo	ted, stored or physically, chemically gically treated prior to, or in lieu g discarded		-
3.	Burned f	or energy recovery		<i>_</i>
4.	or conta	to the land or placed on land ined in a product that is applied or on the land in a manner constituting		
5.	Recycled	1?		
1.6(d)	under to	e generator process any material oll agreement pursuant to NJAC (such material is classified as a waste").	· ·	<u> </u>
HAZARDO	US WASTE	DETERMINATION		
8.5(a)	•	Did the generator determine if its "solid waste" is hazardous?	<u> </u>	
8.5(b)		Is the waste listed (or a mixture)? If no then:		
8.5(b)(1)	Did the generator determine the hazardous characteristics based upon testing of the waste in accordance with 8.9-8.12?		
		Based on characteristics, is the waste hazardous?	<u> </u>	
8.5(b)((2)	Did the generator determine the hazardous characteristics based upon knowledge of materials or process?	<u>/</u> _	
•		Based on knowledge, is the waste hazardous?	/	

Revised 10/9	0 JM	YES NO N/A
8.5(c)	If the waste is not listed or hazardous based on characteristics, has the Department requested the generator to submit a plan analyzing for the presence of hazardous waste constituents (8.16)? If yes:	
	Has the generator submitted the plan in a timely manner?	
e e	Has the generator conducted the approved plan and submitted the results?	
	Based on constituents, is the waste hazardous?	
8.5(d)	Were test results, waste analysis, or other determinations made in accordance with this section kept three years (in operating log) from the date that the waste was last sent to an on-site or off-site TSD?	
MANIFESTS		
7.4(a)4	Does each manifest have the following information? Please obtain a copy of the incomplete manifests. (List those manifests that are deficient on pg 9).	
7.4(a)4i	The generator's name, mailing address (&site address if different) and phone number.	
7.4(a)4ii	The generator's EPA ID number	
7.4(a)4iii	The transporter(s) name, phone number and NJ registration and decal #.	
7.4(a)4iv	The transporter(s) EPA ID number	
7.4(a)4v	The name, address and phone number of the designated TSD facility.	
7.4(a)4vi	The TSD's EPA ID number.	
7.4(a)4vii	The name, type and quantity of hazardous waste being shipped, including such particulars as may be required regarding same? Has the generator properly classif (RCRA) each waste on the manifests Proper USDOT shipping name, hazard class, ID #, quantity, waste code?	7
		The state of the s

Revised 10/90 JM		YES	NO	
7.4(a)4viii	Special handling instructions and any other information required on form to be shipped by generator including chemical names, constituent percentages, physical states, and	163	NU	
	hazardous characteristics? (Did the generator describe all N.O.S. wastes in Section J?)			
7.4(a)4ix	When shipping hazardous waste to a waste reuse facility does the generator enter the waste reuse facility I.D. # in the section G of the Uniform manifest?			
7.4(a)5	Before allowing the manifested waste to leave the generator's property, did the generator:			
7.4(a)5i	Sign the manifest certification by hand?			
7.4(a)5ii	Obtain the handwritten signature of the initial transporter and date of acceptance on the manifest?			·.
7.4(a)5111	Retain one copy and forward one copy to the state of origin and one copy to the state of destination?		/	,
7.4(a)5v	Give the remaining copies of the manifest form to the hauler?	/	· -	-
7.4(e)2	Has the generator utilized a transport which is properly registered?	er _		
7.4(e)3	Designated on the manifest an authoriz TSD or reuse facility?	ed /	/ -	
7.4(e)4	Did the generator permit the shipment hazardous waste to an unauthorized TSD reuse facility?		/ 	
7.4(f)	Has the generator maintained facility records for three (3) years for:		,	
7.4(f)(1) 7.4(f)(2)	Manifests? Annual or exception reports?		. —	- ·
7.4(f)(3)	Has generator maintained records during course of unresolved enforcement action or as requested?	it		••
7.4(h)1	Has the generator received signed copies (from the TSD facility) of all manifests for waste shipped off site more than 35 days ago?			

Revised 10/90 JM			YES	NO	N/A
7.4(h)1	If not: Did the generate the hauler and/or the own operator of the TSDF and at (609) 292-8341 to inf NJDEP of the situation?	ner or I the NJDEP			
7.4(h)2	Have exception reports to the Department covering these shipments made more days ago?	ing any of	***************************************		
				·	
· ·	D () YES () NO ifests in compliance	all			
Number of man	ifests not in compliance	6		,	
List manifest doc note each deficie	ument numbers of those man	ifests not in c	omplia	ince a	ind
Manifest Document			•		
state on	nampests copies we	ne not se	NB	Sht	i
this is b	lear Corrected Throng	n apv c	turz	7.46	J 5 ii
	correctly prepared.				

,	Revised 10/90 JM	YES	NO	N/A
	WASTE OIL		110	Mar
	Does the generator ONLY generate or store (in above ground tanks or drums) less than 1001 gal of only waste oil (except X725 for which 100 kg rule applies) per month?		·	- Itel
	7.7(d) If yes, are receipts (or manifests) obtained from registered hauler and retained for 3 yrs? (Check quantities on receipts) Note: No other HW regs apply.	-	ib demonstrative	
	Does the generator generate over 100 kg of hazardous waste (or 1kg if acutely hazardous) and any listed waste oil or generate/store >1001 gal of waste oil in any given month?	_	_	
	If yes, the generator must be in compliance with: (use appropriate checklist section)			
	Manifests requirements (7.4)			
	Labeling and Container requirements [9.4 (d),7.2(a&b),9.3(a)3,9.6(e)]			
	Satellite regs [9.3(d)]			
	WASTE OIL TANKS:			
	Is there above ground > 1001 gal total capacity (which includes drums) but <90 day storage? [Use TANKS (above ground, less than 90 day storage) section in checklist, 9.3(b)]			· · · · · · · · · · · · · · · · · · ·
	If yes, does the generator have a letter of approval from HWENG?			/
	And is the generator in compliance with other requirements for less than 90 day storage of HW in above ground tank (9.3(b)?		/	
	Is there above ground > 1001 gal total capacity, and >90 day storage?			,
	If yes, is the generator:			<i>)</i> A
	12.1(a) Acting as TSDF?			<u> </u>
	9.3(a)1 Acting as a Generator?			
	Does the generator store waste oil in underground tanks?			
	If yes, refer to TANKS (underground) section in checklist [9.2(b)]. Note: The only exceptions to the underground tank prohibition are: A) Waste motor oil < 1001 gal capaci B) Underground tanks in existence an for HW storage prior to 1/17/83.	ty d in (ISE	

Revised 10/90 JM

9.4	HAZARDOUS WASTES ON SITE		Reminder: 17E - Bung 17H - Oper	Type Drum	
WASTE	WASTE CODE	TANK/CONTAINER	SIZE/TYPE	QUANTITY	
Soher	Fool	3 drums	stya	3	
Sohent	D001	contames	5-5 galdum	3	
Soil	C 313	Containes	55gel	4	
Solid waste	DOUS	continer	40 gal faber	10	
X-726 Waste Orl	X-726	Tarek	1010	<i>I</i> * *	
waste water	X-126	open ort/with	607	,	

SHORT TERM ACC	UMULATION STANDARDS FOR GENERATORS WHO ACCUMULA TANKS FOR 90 DAYS OR LESS:	ATE WASTE	E IN
CONTAINERS	If the answer to any container questions is no, describe the problem (include number of containers & waste involved).		
9.4(d)li	Is hazardous wastes stored in adequate containers? Comments:		<u> </u>
9.4(d)3	Are all containers compatible with the waste being stored in them? Comments:		-
9.4(d)41	Except during filling and emptying, are all containers kept securely closed so that the is no escape of Hazardous Waste or its vapors? Comments:		
9.4(d)4iii	Do the containers appear to be properly handled or stored in a manner which will minimize the risk of the container rupturing and/or leaking? Comments:	<u>/</u>	
9.4(d)4iv	Are containerized hazardous wastes segregated in storage by waste type? (type interpreted as DOT compatibility) Comments:		
9.4(d)4v	Is every container arranged so that its identification labels or markings are visible? Comments:		· · · · · · · · · · · · · · · · · · ·
9.4(d)5	Is the container storage area inspected daily for leaks and deterioration?		
9.4(d)6	Are containers holding ignitable and reactive wastes located at least 50 feet (15 meters) from the facility's property line?		
9.6(d)	Did the owner operator maintain access to communication or alarm system?	<u>ノ</u>	

9.6(e)

Adequate aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment? (Policy is 18", 30" double stack) Comments:

Did the owner/operator conspicuously 7.2(a) label appropriate manifest number on all hazardous waste containers that are intended for shipment? Comments:

9.3(a)3

Is each container clearly dated with each period of accumulation (when accumulation starts) so as to be visible for inspection?

and clearly marked with words "Hazardous Waste"? Comments:

7.2(b)

Did the owner/operator insure that all containers used to transport hazardous waste off site are in conformance with applicable DOT regulations? (49CFR 171, 179)

SATELLITE ACCUMULATION AREAS

Note: Satellite rules apply for "active drums" that are being currently used to accumulate hazardous waste.

9.3(d)1

Is the quantity of waste in each accumulation area less than 55 gallons (less than one quart if acutely hazardous)?

NOTE INTERPRETATION:

A second drum can be utilized until the original drum is moved within three days. The total storage capacity for any satellite accumulation area shall not exceed 110 gallons for each waste stream.

- 9.3(d)2 In addition to container requirements, are the containers managed in the following manner:
 - (a) meet the stds of 7.2 (Container Requirements)?
 - (b) managed in accordance with 9.4(d)2,3&4i (proper container storage)

Use of existing HW underground tanks without proper monitoring (7:14A-6) OR not within specified lifetime of tank OR without proper management [10.5(e)6]?

9.2(b)3

TANKS (above ground, less than 90 day storage)

1	1000 got
(9.3(b))	mn sign.

Does the generator accumulate hazardous waste on-site in an above ground tank? If yes:
Does the generator have written approval from the Department to store hazardous waste(s) in this tank(s) for ninety days or less?

9.3(b)5

Is each tank(s) rendered empty (1% or less remaining) every 90 days or less? Explain how this is determined eg logs, manifests:

<u>/</u>____

9.3(b)6

Are all wastes removed from the tank(s) shipped off-site to an authorized facility or placed in an on-site, authorized facility?

9.3(b)8

If part of the tank is below grade, is it constructed to allow visual inspection of the tank, comparable to a totally above-ground tank and is secondary containment provided for the below grade part?

9.3(b)9 10.5(c)1

Are materials which are incompatible with the material of construction of the tank(s) placed in the tank(s)?

10.5(c)2i

Does the generator use appropriate controls and practices to prevent overfilling?

10.5(c)2ii

For uncovered tanks, is there sufficient (two feet or acceptable documentation) freeboard to prevent overtopping by wave or wind action or by precipitation?

9.3(b)3 ′

10.5(d)1

Does each tank(s) or storage tank area have secondary containment?

Is the containment system capable

of collecting and holding spills,

leaks, and precipitation?

10.5(d)li

Is the base underlying the tank(s) free from cracks, gaps, and sufficiently impervious to contain leaks, spills, and accumulated rainfall until the collected material is detected and removed?

1

the facility?

Revised 10/90 JM		YES I	NO N/
9.4(g)5	Has facility personnel taken part in an annual review of initial training?		hot my
9.4(g)2	Is the program directed by a person trained in hazardous waste management procedures and does it include		ases
	instruction which teaches facility personnel hazardous waste management procedures (including contingency plan	:	'n
	implementation) relevant to the positions in which they are employed?		
Is there written	documentation of the following:		
9.4(g)6i	Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job?		
9.4(g)6ii	A written job description for each position related to hazardous waste management?		
9.4(g)6iii	A written description of the type and amount of both introductory and continuing training that has been and will be given to personnel in jobs related to hazardous waste management?		Ov BA E
9.4(g)6iv	Documentation of actual training or experience received by personnel?		
9.4(g)7	Are training records kept on all current employees until closure of the facility and training records kept on former employees for three		
	years from their last date of employment?		
PREPAREDNESS ANI	D PREVENTION		
	Does the facility comply with preparedness and prevention requirements including maintaining:		pl.
9.6(b)1	An internal communications or alarm system?		
9.6(b)2	A telephone or other device to summon emergency assistance from local authorities?	/	
9.6(b)3	Portable fire equipment, spill control equipment, and decontamination equipment?	<u> </u>	
			91

Revised 10/90 JM				A. 40
9.4(g)8i	If no, did the owner or operator petition the Department for an exemption from the semi-annual drill requirements?	YES	NO	N/A
9.4(g)8ii	Did the owner or operator petition the Department for an exemption excluding some or all local officials in the semi-annual drill requirements			
	If yes, did the owner operator provide those specific local officials with written approval of the exemption?	de		
CONTINGENCY PLAN AND	EMERGENCY PROCEDURES			
9.7(a)	Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or non-sudden releas of hazardous waste or hazardous waste constituents into air, soil or surface water?	е	/	
9.7(b)	Are provisions of the plan carried o immediately whenever there is a fire explosion, or release of hazardous w or hazardous waste constituents whic could threaten human health or the environment?	, aste		
9.7(c)	Does the contingency plan describes actions facility personnel shall tak response to fires, explosions, or an unplanned sudden or non-sudden relea of hazardous waste or hazardous wast constituents to air, soil, or surfac water at the facility?	e in y se e		
9.7(d) Stores of The Store of T	Did the owner or operator prepare a a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 300 or a Discharge Prevention Containment & Countermeasure (DPCC) Plan in accord with N.J.A.C. 7:1E-4.1 et seq.?	ind	DPC	Flor Nilst
2 500, 000 8 8 1 Punh 2 500, 000 8 8 1 Punh 1 200, 000 8 8 1 Punh	NOTE: DPCC >400,000 gal storage of t substances			. 0
about the gold his	SPCC: Storage of any kind of oil and products including gasoline and fuel If >660 gal single tank	i most l oil:	oil s	to off

If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section?

المتوليس

9.7(e)

Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services?

9.7(f)

Does the plan list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up to date? Where more than one person is listed, one shall be named as primary emergency coordinator and others shall be listed in the order in which they will assume responsibility as alternates?

9.7(g)

Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems [internal and external] and decontamination equipment), where this equipment is required? Is the list up-to-date? In addition, does the plan include the location and physical description of each item on the list, and a brief outline of its capabilities?

9.7(h)

Does the plan include an evacuation procedure for facility personnel where there is a possibility that evacuation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evacuation routes (in cases where the primary route could be blocked by releases of hazardous waste or fires?)

9.7(1)

- Is the copy of the contingency plan and all revisions to the plan:
- 1. Maintained at the facility
- Has the contingency plan been submitted to local authorities (police, fire departments, emergency response teams?)

9.7(k)

Is there an employee on site or on call at all times with the responsibility of coordinating, all emergency response measures?

9.2(a)2

Is hazardous waste handled in a manner which causes (or may or has caused) a discharge of a hazardous waste onto the land, waters or air of the State?

58:10-23.11(c)

Is there a discharge of a hazardous substance (under Spill Act)?

58:10-23.11(e)

Was it reported to the Department?

SUMMARY OF VIOLATIONS:

When making a referral, list each citation and the basis for issuing the violation (add additional pages as needed):

9.3(a) 1 Storing waste > 50 days 4 drums C 313 Hg

9.3613 waste drums, no date 2 drums F00)

9.3(b) waste orl tank and also posseble orl water Esparter tack

no approval Tanh = 1010 gu separata = 600 gr

7.3(4)9 no labels n tanks.

9.6 (+) 4.5,6 failure in pregaredness) paraulion

9 × (9) & failure to hold some annual five dulls

9.7(d) deficiences in Contingency plan

9.7(a), (e), (h) (i)

7.4 (a) 5 ii failure to send manufest copies to state

	CONFIDENTIAL - Recommendations
N	OTE: 1) Confidential material can be subpoenaed. 2) May be subject to public review (Right to Know). 3) Confidentiality is limited, it includes:
	1) Criminal activity (including suspected or potential) 2) Potential non-compliance or potential violations 3) Information obtained by informants (do not use names) 4) Proprietary information regarding industrial processes (only if requested in writing). 5) Attorney client relations (with DAG) 6) Entire file is confidential while violations are under investigation. Recommendations / commends
	Facility Environmental Engineer was very cooperation
	and has responded proprietly & address MV.
-	see attached.
-	
-	Compleance date is 12/7/30 for wolston noted on nov's
•	sel also post 21
•	sel also post 2!
•	sel also post 21
•	sel alm post 2!
•	sel alm post 2!
•	sel alm post 21
•	sel alm post 21
•	sel also past 21
•	sel also post 21
	sel alm post 21
	sel alm post 21

NEW SEASEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WASTE MANAGEMENT

6-14-9

INCIDENT REPORT

	.w. 10171-1/1	71-1017151	HOT LINE	囡	INDEXE	, L
D.W.M. ASSIGNED CASE NUMBER	TIME (Military)		D.W.M. ID	NO		
DATE (이건 - (시간 - (원년)	(1002	53301		IZ P	1612	
INCIDENT REPORTED BY:				PHONE		
NAME				691-	3000	CODE CODE
MILL NARILL					.	CODE
11.0.						
STREET				STATE	— т	ZIP CODE
CITY		-	•	SIAIC		
TO A TION.						
INCIDENT LOCATION:				PHONE		
CHEM31 12161/61	1, 1, 1, 1, 1, 1, 1	<u> </u>		UTM VERT		UTM HORIZ
STREET STATE CIES IN EMISIT	MUELLL	111111	11111	STATE	 • 	ZIP CODE
CITY VI/MERIAMION III		COU	1111.	,		
SOURCE OF SPILLED AND/OR DISCH	ARGED SUBSTAN	ICE: Confirme	d 🗆 Alle		More Tha	n 1 Source
COMPANY NAME				PHONE	3600	×282
SEE 14		TITLE		676	<u> </u>	
Jim Carl				I DER COM	PANY NO.	
STREET				DEF COM		
CITY		CC	YTNUC	STATE		ZIP CODE
T	ATORES CURETA	NCE: Confirm	ed 🗆 Alle	eged 🗆		an 2 Substances 🗆
SUSPECTED SPILLED AND/OR DISC	HARGED SUBSTA	itot. odinin				STANCE NO.
1. Risson CF	# 2 ruse		A/P/E		S/L	/G/M
AMOUNT SPILLED	TIULUI	s াত্ৰি	77.75	ل		STANCE NO.
	<u> </u>			_	- 11	
2. AMOUNT SPILLED	UNIT	s	A/P/E		\$7L	/G/M
AMOUNT SPILLED				Ш		
DATE OF INCIDENT	IME (Military)	TEMP.	WEATHER	W	IND (Dir. 8	Vel.)
[C] 7]-[1] - [E] Y]	[5 5]	اكا	<u> </u>		CO	DE
SPILL ORIGIN	•					DE
CAUSE						" LLL
WATER BODY AFFECTED					CC	DE
ma						
ASSOCIATED FIRE AND/OR HAZARDS		·				
INCIDENT REFERRED TO:				PHONE		
AGENCY		·				
CONTACT				AGENC	Y CODE	لللا
PRIMARY NO INCIDENCE TOR			T FOLL	DWUP		
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the 0. 1.01	tank.	Lum &	Comme	- Com	. <i>V</i>	• .
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OFF- Called Vinclan)	AN MU	in annou	er - 1	- will	duva	you full
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87 1973 37 44-5536	TRENTON DISPAT 4	2 0001
	TO FENVIRONMENTAL PROTECTION OF COMMUNICATIONS AND SUPPORT SERVICES	LOG# _6946_
Show B	100.307.7179	1
COMMUNICATIONS CENT	ER NOTIFICATION REPORT.	- 13 · 095
	A CHOSE NO. TEST THEO	Dely Time
DATE 10 - 12 - 87 SY M. LAU	PATRICULAR BY STAR	
INCIDENT REPORT BY: WENNER, WALTER	Phone 609 692 3600	
Street CRYSTAL AVENUE	State NJ	
City OWENS ILLINOIS ENVIR	ONMENTAL ENGINEERING SUPERVISOR	
INCIDENT LOCATION: Transportation Name (Site): OMENS_ILL_INGIS	X Facility Phone 609 692 3604	i
S: H CRYSTAL AVENUE IV VINELAND COUNTY CHIMBER	LAND State NJ Zip Code	•
Date of lacidant: 10 - 12 - 87 Time: _	1400	•
IDEAT . OF SUBSTANGE (S) SPILLED, RELEASED, ETC.:	Known SuspectedUnkr	nown
Maria of Budatanca(s) [Gas, Liquid, Solid]: # 2 FUEL CAS flumber: NA 7000 GALLONS Actus		
	Continuousintermittent	İ
Hazerdous Material (V)(t)		
MATURE OF INCIDENT:Complaint	USC. Notification Emergency	Sub. 20
INCOPAT D. SCRIPTION:	And Anathrope	moke/Dust
Odors Sewage NJPDES	MVA Dersilment \$ Noise Itiegel Dumping Wildlife	
Equip Start-up/Shutdows, Equip Fall/Upset, etc. Other (specity)		
Injuries (Y(H/))	Public Exposure (Y(N/U) Police at Scene (Y/N/U)	į
Facility Everyagion (Y (M (J)) Contemination ofAirX_Land Water	Assistance Requested (YNI)	
Potable Water Source (Y(N)U) Repobling Water	Wind Direction/Speed Precipitation (rein/snow)	
Location Type:Residential _X_Industrial	Rural Sensitive Population (Hosp.Scho	i
STATUS AT INCIDENT SCENE TANK TRUCK WAS UNLOA CAUSING THE SPILL SPILL CONTAINED LIP IAW SOP.	DING INTO STORAGE TANK AND WAS OU IN AN ASPHALT ENCLOSURE. COMPAN	VERFILLED Y WILL CLEAN
RESPONSIBLE PARTY: X Known Suspi	octed Unknown	
Company Name CHENS_ILLINOIS CONTROL WENNER WALTER	Phone 609 692 3600	FERTUR CHIPFRY 194
I OLIVET ALENIE		
City VINELAND County CLIMBERLA	ND State NJ Zip Cot	<u> </u>
OFFICIALS MOTIFIED (Nume/Title):	0022000 Ben/Time 10=12=87	1439 (TAN)
Local Hagith Latter Special VCHD	hone 794-4000 Deta/Time Lello	1/32 11/41
NJBP: TROOPER MISHAK / QEM Local Magisti Lactor Special / VCHO Local Munic: / USEPA:	hone Date/Time / bone Date/Time /	(T/M)
INCIDENT REFERRED TO:		
THE PARTY PROPERTY PARTY TO THE PARTY PART	M DONDFGDFFD	CI DEN
Region: Northern Metro Central X 1. Name/Affil J. MANUEL / ER 2. Name/Affil / Discount	hona HOME Data/Tiene 10-12-87	1433 (1702)
2. Name/Affil/ DHWM-3.	hone Deta/Time	
3. Name/Affil MINAR OF REMAIN LEMEROLATE DEP RESPONSE (8/N) LEMEROLATE DEP RESPONSE (8/N)	none Opta/Time O	11/100
The state of the s		

COMMENTS

NUS CORPORATION AND	D SUBSIDIA	RIES		TELECON NOTE
CONTROL NO:	DATE:		TIME:	
5098	28 1	ely 1992	1050h.	
DISTRIBUTION:	- 1 - 0	/		
O.I. Kimble STS		•		
		•		
BETWEEN:		OF: Visaland	PHONE:	
Paul Horner		OF: Vineland Water Departme	nt (609)79	9 4056
AND:	, .			
CORRY T. PLATT	(HNUS)		
DISCUSSION:				
- The total	rumber o	of people serve	d by Public	Water
Supply are approxim				
blended and then				
Paul was unable				
<i></i>	_			
more than 40%	<u>.</u>	System as a	c wp & . see	rumper !]
io not in service	/et		^	
		- GAT	1 / /	
		Can T. Klo	tt 1/28/92	
		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	***************************************	
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/-		· · · · · · · · · · · · · · · · · · ·		
l	 			
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ACTION ITEMS:				
				· · · · · · · · · · · · · · · · · · ·
	•			· · · · · · · · · · · · · · · · · · ·
\		•		

TO: O.I. Kimble	DATE: 7 August 1992 (PAGE 1 & 2)				
FROM: CORRY T. PLATT	COPIES:				
REFERENCE: -/ Alara	n Served by wells within 4 miles of site				
T. O. III \ h. T.	- Paul Horner & Corry T. Plate (#19, 40),				
Tiger repulation Nata [25]/elecen	Note between Bud Cowallo (Corry T. Platt = 43				
The City of Vineland has	12,982 meter connections for fullic				
	age of 2.81 persons/household according				
	Total of 36 479.42 which is rounded				
	resviced by Public Water Supply.				
l /	aply Wells of which 12 are located				
within The 4 mile padicio	I am assuming that no one				
well centributes more 7	han 40% of the total annual				
pumpage for the following					
	ono by 13 wells equals 2806 persons				
served per well.	years were purent				
	deviate the location and much of				
	depicts the location and number of				
people served by each Public DISTANCE: NUMBER OF RESENT	AMCATION SECOND				
0-1/4 mi. 0	O				
1/4 - 1/2 mi. 0	0				
1/2-1 mi. 4	11224				
1-2 mi 2	5612				
2-3 mi 6	16836				
3-4m. 0	0				
0-9 mi 12	33672.				
· '	If 36479 people are served by Public Water within 4				
	one served by private water supply with				
4 miles if the total population	is 52869 as the Typer Repulation States				

excluding 1500 persons in The 3-4 mile ring That are served by							
Minotola Water Department, a public system.							
Using Mr. Paul Herner's estimate of 95% of housholds within							
city limits being served by Public Supply and 5% on private supply							
within city limits and estimating the amount of the ring							
in question a falls in & within city limits one can estimate							
the number of people on private water supply.							
The felowing table depicts the above calculation for each							
ring:	ALCH ATED POR ATION					POPULATION	
DISTANCE:	TIGER DATA TOTAL APPLATION	% of Ring within City limits.	POPULATION WITHIN CITY LIMITS	SERVED BY AUGUST WATER		SERVED BY PRINATE SUPLY	
0-1/4 mi	575	100	575	546.25		28.75	
1/4-1/2mi	2088	1∞	2088	1983.60		104.4	
1/2-1 000	8775	100	8775	8336.25		438.75	
1-2 mi	15302	100	15302	14536.9		765.1	
2-3 mi	15663	60	9397.8	8910.81		6752.19	
3-4 m	10466	20	2093.2	1988,54		6977.46*	
0-4 mi	52869		38 231	36302.31		15066.65	
* excludes the 1500 persons serviced by Minotola Public Supply.							
Combining the sopulation served by Private Supply and							
Combining the population served by Private Supply and lublic Supply for each well yields The following table.							
DISTANCE	PLBLIC SUPPLY POPULATION	PRIVATE SUPPLY POPULATION	ीध	TOTAL		RAMPED OFF TOTAL	
0-1/4 mi	0	28.75	28.3	28.75		29	
1/4 - 1/2 mi	0	104.4	104.	104.4		104	
1/2-1 mi	11224	438.75	11662.	11662.75		11663	
1-2 mi	5612	765.1	637	6377.1		6377	
2-3 mi	16836	6762.19	23588	23588.19		23588	
3-4 mi	0	6977.96	6977	6977.46		6977	
0-4 mi.	33672	1906665	48738	4 8738.65		9	

TO: O.J. Kimble STS	ATE: 7 August 1992 (Page \$ 28 }
5D044 - 4	OPIES:
SUBJECT: Determination of Repulation Served 6 REFERENCE: PAGE 2	y wells within Amiles of the site.
1AGE 6	
Place not that it that	
Please note that the total of	Tora The Third table so
48738.65 persons. The difference of	9130.65 from the total
population within 9 miles of 5286	7 is allubutable to the
1500 people served by Public water	
2806 people who got their water for	in well " 15 p that does not
fall within 4 miles of the site.	

REFERENCE NO. 42

NUS CORPORATION A	ND SUBSIDIARIES		TELECON NOTE
CONTROL NO.:	DATE:	TIME:	
0061	02/14/92		//: 3 6
DISTRIBUTION:			
- Tooley's 6	/) :>c>e5		
		•	
- Hoff			•
BETWEEN:	OF: NGDERE	, Bureau of	PHONE:
Dan Van Abs	Libeter Suppl	y Planning	(609)633-1179
AND:			
K. Compbell			(NUS)
DISCUSSION:			•
Mr. Van Abs at	uned my call of oclishes	, and populate	of the fillowing
in the same	world my call of oclished Wellhead Protection Area	(())	1. C. II
- Information on /	Williaga Frotection Ales	(WHPA) delin	estion for the
Jok of New YEL	sry:		
	LUHPAs are not yet deline	sted for the	state. The
R			
Lyran	of Water Supply Mani	ning is worki	ing on a
draft	of Water Supply Plans delineation (a multi-ye	ar process),	
		•	
Mr. Van Abs ,	vill Put HNEC on the	ic mailing list	to receive
undstes on h	OHPA regulations.		·
	7		
		·	
			
			· · · · · · · · · · · · · · · · · · ·
ACTION ITEMS:			
			<u> </u>
			·
,		Mayball "	9/4/92

REFERENCE NO. 43

0026-N NUS CORPORATION AND SUBSIDIARIES **TELECON NOTE CONTROL NO:** 5 August 1992 1614 h. 3098 RP O.I. Kimble STS. OF: Vireland Water PHONE: Bud Cavallo (609) 794 9152 CORRY T. PLATT (HNUS) The City of Vineland has a total of 12,982 meters. These meter connections can include apartment buildings with more than the county average of population present. * This information was received through a call back and left on a message taken by Jacqui Roche OF 8/5/92 **ACTION ITEMS:** Colculate number of people on public water using 1990 Census Dato OTP 8/5/92

REFERENCE NO. 44

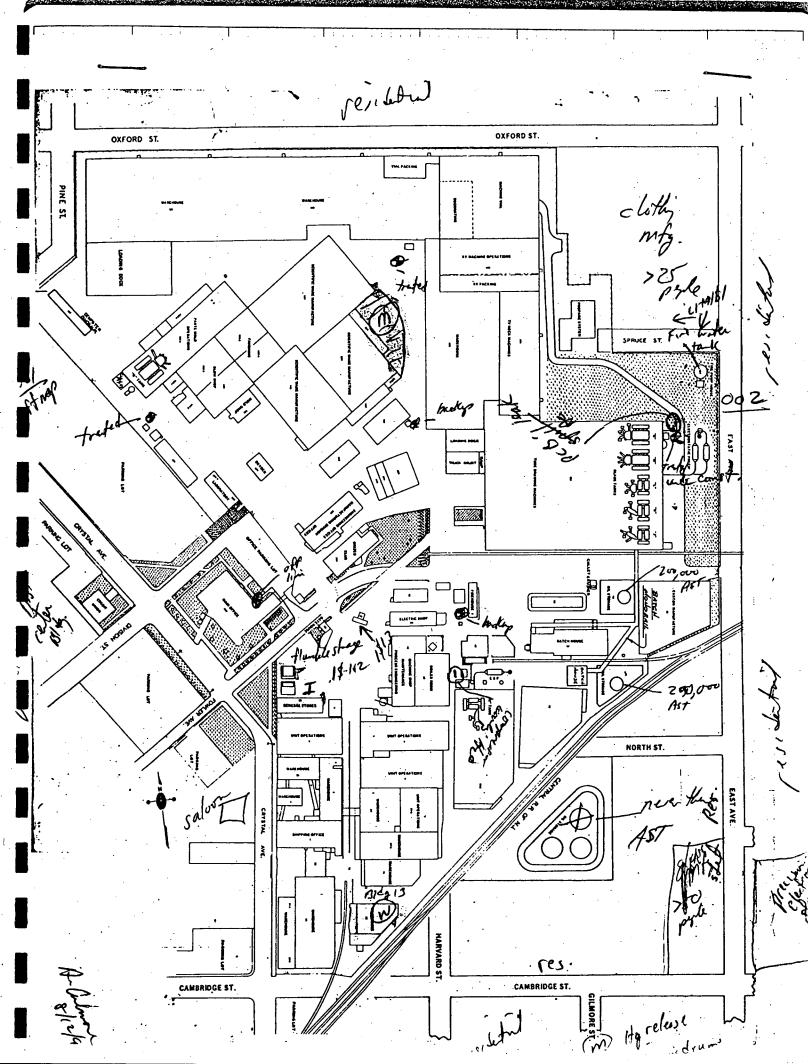
8/12/92	O.I. Kim	ble STS		JO98RP
	ON-SITE A	RECON		
HALLIBURTON A	JUS PERSONNEL	<u>:</u>	RESPONSIBIL	<i>1TY</i>
ANTHONY C			Site Mgr.	
NICK KIZ	ES		_550	
· ·	IE ABOVE PERS		READ AN	Σ
UNDEKS	TAND THE WO	OKK PLAN.		: :
Weather Con Temp: Wind:				
	PRESENT			
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Monitor-4 Minolta Comera	73 466	- '·		· · · · · · · · · · · · · · · · · · ·
Minolta Camera Time OF ARR	- (Stides) 724	743		
				; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
SITE CONTAC	Walt W	enner		
		·	. Culman 3,	/12/92 p

8/12/92		OI kimble STS		DOGRAD
1110	Arr	in at lite		(
1115	met ,	It Walt Wenner	and ducus	sed -
	the qu	estions provided to to	a investigating	
		many of all into go		
	the in	terview will be	proided of the	4
	end of	the seen notes. In	rformation my	
12/0	Conclud	ed intervew. U	ualf wenner	
:	had me	a copy of questional	t bight	
		and bring in e		
125	Degin	Recon		
	Recei	in t general 5 Jung	e aren	
1227	dians	(platic) 1\$1 e.	rty Hel	
	Song	back to supplie for	nf.1)	
	Dium Inco	mnyt vutgoring under	overhang	
1229			~	5
	are	a under overhang		
			G. Culman	5/12/92 p4

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8/12/92	O.I. timble STS	JOSPRP
1236	Flandle 5 torage aver	A
	Flandle 5 tronge area acetone, Tolume, 111 Trublaro et	had
	2 inch bern concrete pad	
	1\$3 vie of flamble + solvat s	forage
	ava	
	Nick reports background of 1-	2 pm
	on ov A - vehile mue met	n am
	How nothing above background	
	marty 9 CPM	
1235	Heading for 11 Hz 13	
	Har War Storage	
	Ar point for 3 électros	forc
	Ar pomp	
	precipitatives	•
	a y dust colletors will se	dinton
+ ,	3 - y dust colletons will se	
	outside Bldg. 13 emply draws an	aits
	rease Nick report 6 ppm OV	A
	9ppm HN	W
	Mr. Wenner - ryputs pire oil	dram
	a. Culm	on 8/12/42 p

- -

8/12/92	0.3	. Kimble S	TS	i	J098RP
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	184	of dram	r autoide	bldg. 13	
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	waste	iar stro is puller s and all	Inheled,	steel + fil	ker
		Iruns -	forting o		
		run 1			
124-)Pc	B - It Y	ransfor mes	remid	
					nc
	on	site. In	blocess w	f slow rev	wel.
	and the second second				1
1218	178	protect disting	while pre	is to discha	J
		001		F. Colone of	

27.7

8/12/92		O.I. Kimble	573	J098 RP
1300				Bldg with
	du	ing removal	- all	other active
	There	was I on	Aside Fran	formera which
	Clean		The Tha	of the ECKA
1305			1	- remed
-	Now	to leth.	by black	ty. Cocumet
			ort remede	
1312	1\$10	Air s	trppe so	III unde construction
1315				CB transformer
	•	•	philtore	ontanisfol Soil
				9. Calman 8/12/22

· · · · · · · · · · · · · · · · · · ·	8/12/92		OFK	inble 375	Jogf-RP
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		Store o	trai sylo	ten 19	o Eart And
		N	o distaz		
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			pper cond		
			Sand	+ crushed S	luss)
			13		
		•			9. Culman 8/12/82
			1		<u>ρ</u> δ

8/12/22		SI Kinbl	•	σ.	098RP
1348	At disi	Ley 001			
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		4			
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			1 site f		
	Choade	ice the	ano		
1250	Residu	ful proput	ris across	rtunt for	de:
	- ad jour	or oxtens	57. Va	St.	
	5 Res	i de Aud	properties (n East	st.
	betw	a Oxford	+ 5 prac	* · · · · · · · · · · · · · · · · · · ·	
1350	3 pict	a of fa	ality fro	m Eac	t +
			alih 1x		
14/00	Lea	ne site		a. alm	e 0/1492
		,1			

Land Section 1997

OI Kimble JUGFRP 8/12/92 Site Sammay The site is an active facility that monutactures presed and blown glass. Facility structures date back to Construction in the early 1900s. Specialty glass made is of a borosilicate nature. Mr. Wenner will be sanding the following internation. 1) All documtation regarding Mercun Contamination and cleanup - now pand over 2) List of all solvets ared on side - noted during recor were acetone, tolure, 111-Tribbo. ethane, muriatic acid 3) Mondowing into on growduster - direction of gu flow is SW for E. Contamination of ons it wells occurred after public supply wells (upgradiet) were found contaminted. of On site wells are used for primarily Am contact Cooling and drinking. for Air strupes are buy put online for water treatment of wells that will remain in service. site has 7 air permits for electrostate preupitators and dust collectors - will send appears. A-Culme 8/12/92 p10

A STATE OF THE STA

OI Kimble JOYYRP 8/10/92 All wells in the area for best of Knowledge squitely top Cohonsey agrifet with onsite wells screened between 100-120 ft. All on site storm noter drawage flows to discharge out and all noncontact cooking water to lichage our. Both draw to managed stormater drawinge system. Also ander the same NOPDES print are 4 sanitary discharges - effluent from inprocess washing operations and schape. All waste strope areas are on concrete floors with berns (outside with mot) or moile blogs. Waste types segregated and orderly storage. There are satethite Storage areas throughout the plant when the Container is filled, it is prought to the Har-war storage area. Prices andes include ceronic decorating waste - lead contact retractory material - chromium contact waste luke oils and solvents phasing out solvets to use "safety clean" 9. Cubrace 8/12/92 pl/

Transferring the state of the s

OI Kimble 8/12/92 JU98RP On site above-grown storage tacks are full of for furnaces on site. 2 - 500,000 gol ATTS
2 - 200,000 gol ASTS
1 - 200,000 gol AST for fire Suppression The last on site RCRA inspection was post Closure in 1990 There was I drum with PCB oil in the Haz-war storage area. Z transformers were removed for disposed on 8/11/92. There are a number of or site PCB transformers all prently active and inside buildings, They are in the process of decommissioning and desposing of all PCB contamuted or -There was I transformer with PCBS that leaked noted on site map. The leak sail runed - was cleared up and now pared A. Calnone8/14/92 JU98 RP OI Kimble On site worker population apple. 1, too. There are other commercial/industrial properties adjacet to the facility as well as numerous residential properties. None of these areas are within 200 feet of an area of known (former) contamination. There are its schools or drycare carters nearby. Mr Wenner reported that gor contamination is an appearance problem with no source being Idetified the appraciat public supply vells. Contamination of the onside wells was not identified until 1991. Will said into to give estimate of warte quantity generated. Chable to find the du lage location of the storn draws to the brook - tribaty to Maurie Rich side faced or bldgs. border roads, full time A Cult 8/12/92

	e in Mary department about 10%	STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,	在山東衛門在北京公司	randa da Salah kati da da	A STATE OF THE STA
9/10/92	0.1	Kimble 8	T3		5098-RP
	PHOT	o Log	,		
PHOTO NIMBI	EQ	DESCRIPT			TIME
1-1-1	Empty	Plastic Drus	ms, previou	sly contains	7 1-22
	HCl, ac	vacting retu	un to suppl	ver for refill	1-227
18-2					1229
	unde	metal drum overhang.			
1-ρ-3	View q	flammable	o and solve	ento storag	- 1230
	wea				
1ρ-4	View of	dous waste	no according	reuse our	1240
	·	+		· · · · · · · · · · · · · · · · · · ·	
1 P-5	View	48 drums hozastow	of cerami	c waste	1242
		 			
1 P-6	View	17 dums hazardou	of refract	ery pieces	1242
	mon		NA DI	y. J	
1.φ-7	View	ous waste	storage be	ubling	1242
	 		 	 	
19-8	View	goes to do	r Cooling &	Discharge	125f
10-9	View	of Mercury	Remediation	n Site	1305
19-10	View of	X Air Strippe	 		1.31.2
	Constr	uction			
1P-11	View	of former	transformer	and ACB	1315
	leak	location			
1 P-12	View 9	Discharge	002 Lead	no to	1320
	Cost A	e Strm	Drain Syster	h	
1-1-13		Bog House	·	····	1324
JP-14	Viewg	V		d of Site) and	
	1 1	per containin			1330
		would gloss	1		
1 P-15	View	discharge	∞ l		1340
19-16,1		of specify		od Sence	
	Street	2070	om roun		1353 M-11 PK
				Comy T.	BEEN!

REFERENCE NO. 45



State of New Jersey
Department of Environmental Protection and Energy
Division of Parks and Forestry
Office of Natural Lands Management
CN 404 Trenton New Jersey 08625-0404
(609) 984-1339
FAX (609) 984-1427

Scott A. Weiner Commissioner Thomas F. Hampton Administrator

August 13, 1992

Corry T. Platt Halliburton NUS Environmental Corporation 120 Wood Avenue South, Suite 610 Iselin. NJ 08830

Re: Vineland Site and Associated Waterways

Dear Corry Platt:

Thank you for your data request regarding rare species information for the above referenced project site in Cumberland and Salem Counties.

The Natural Heritage Data Base does not have any records for rare plants, animals or natural communities on or within one half mile of the Vineland site. However, there are records for a number of occurrences for rare species which may be on, or in the immediate vicinity of the waterways that you have associated with this site. The attached list provides additional information about these occurrences.

Also attached are lists of rare vertebrates of Cumberland and Salem Counties together with descriptions of their habitats. If suitable habitat is present at the project site, these species would have potential to be present. If you have questions concerning the wildlife records or wildlife species mentioned in this response, we recommend you contact the Division of Fish, Game and Wildlife Endangered and Nongame Species Program.

The Natural Heritage Program reviews its data periodically to identify priority sites for natural diversity in the State. Included as priority sites are some of the State's best habitats for rare and endangered species and natural communities. One of these sites is located within the area you have outlined. Please refer to the enclosed Priority Site Map of the Millville USGS quadrangle for the location and boundary of this site. Also attached is a report describing the significance of the Priority Site, and the rare species documented from within the site.

In order to red flag the general locations of documented occurrences of rare and endangered species and natural communities, in 1988 we prepared computer generated Natural Heritage Index Maps. Enclosed please find these maps for the Millville and Newfield USGS quadrangles.

PLEASE SEE THE ATTACHED 'CAUTIONS AND RESTRICTIONS ON NHP DATA'.

Thank you for consulting the Natural Heritage Program. The fee to cover the cost of processing this data request is \$40.00. Payment should be made payable to Treasurer, State of New Jersey and mailed to Office of Natural Lands Management, DEPE Div. of Parks and Forestry, CN404, Trenton, NJ 08625-0404. To ensure that your payment is properly credited, please provide a copy of this letter with your remittance. Feel free to contact us again regarding any future data requests.

Sincerely,

Elena a Williams

Elena A. Williams Senior Planner Natural Heritage Program

cc: JoAnn Frier-Murza
Thomas Hampton

13 AUG 1992

ON OR IN THE IMMEDIATE VICINITY OF ASSOCIATED WATERWAYS RARE SPECIES AND NATURAL COMMUNITIES PRESENTLY RECORDED IN THE NEW JERSEY NATURAL HERITAGE DATABASE

	NAME	COMMON NAME	FEDERAL STATUS	STATE STATUS	REGIONAL STATUS	GRANK	SRANK	DATE OBSERVE	D IDENT.
		•	•						
*** Ve	ertebrates					_	- <u>-</u>		
	CROTALUS HORRIDUS	TIMBER RATTLESNAKE		Ε		G5	S2	1967-SUMMR	` Y
	PITUOPHIS MELANOLEUCUS	PINE SNAKE		T	•	G5 ·	S3	1980-07-26	Y
	STRIX VARIA	BARRED OWL		T/T		G5	S3	1989-10-10	Υ,
*** Va	scular plants						,		
	ARETHUSA BULBOSA	DRAGON MOUTH				G4	S2	1988-05-29	Υ ,
	BIDENS BIDENTOIDES	BUR-MARIGOLD	3C			G3	s2	1979-10-06	Υ .
	ELEOCHARIS TORTILIS	TWISTED SPIKERUSH		E		G5	SH	1923-08-12	Y
	ERIOCAULON PARKERI	PARKER'S PIPEWORT	3C			G3	S2	1909-10-07	Y
	ERIOCAULON PARKERI	PARKER'S PIPEWORT	3C			G3	\$2	1972-07-19	Y
	HELONIAS BULLATA	SWAMP-PINK	LT	Ε .	LP	G3	\$3	1870-05-??	Y
	HELONIAS BULLATA	SWAMP-PINK	LT	E	LP	G3	S3	1891-04-23	Y
	HELONIAS BULLATA	SWAMP-PINK	LT	E	LP	G3	s3	1988-05-29	Y
	JUNCUS CAESARIENSIS	NEW JERSEY RUSH	C2	Ε	LP	G2	s2	1985-07-??	Y
	SCHIZAEA PUSILLA	CURLY GRASS FERN	3C		LP	G3	S3	1923-08-12	Υ .

¹³ Records Processed



NATITURRAYE ILYANDOS IMVANDIA GELMENTI

CAUTIONS AND RESTRICTIONS ON NATURAL HERITAGE DATA

The quantity and quality of datascollected to the Natural Heritage Program is dependent on the research and observious many individuals and organizations. Not all of instantomation is the result of comprehensive or site-specific field surveys some natural areas in New Jersey have never been thoroughly surveyed. As a result new locations for plant and animal species are continuously added to the data base. Since data acquisition is a dynamic, ongoing process the Natural Heritage Program cannot provide a definitive statements on the presence, absence of condition of biological elements in any part of New Jersey Information supplied by the Natural Heritage Program summarizes existing data known to the program at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements of areas being considered nor should they be substituted for one site surveys required in environmental assessments. The attached data is provided as one source of information to assist others in the preservation of natural diversity.

This office cannob provide a resent of interpretation of statement addressing the classic transfollows (exhands resent to the first action of gentands resent the first action of gentands resent the first action of gentands action of seath action should be sent to the DFP DIVERSON OF coast in meson case Bireau of Treshwater Wellands, CN 102 Westenn No 1887 5

This cautions and resur et ons notice must be included whenever information provided by the Natural section batabase is published.



NATURAL LANDS MANAGEMENT

NATURAL HERITAGE

PRIORITY SITE MAPS

The Priority Site Maps identify boundaries of some of the most important sites in the State for endangered and threatened plants, animals and ecosystems. These maps do not contain all of the important areas in the State for endangered biological diversity. They only depict the boundaries of priority sites which have been delineated by the Office of Natural Lands Management to date. These areas should be considered to be top priorities for the preservation of biological diversity. If these areas are allowed to be degraded or destroyed, we may lose some of the most unique components of our natural heritage.

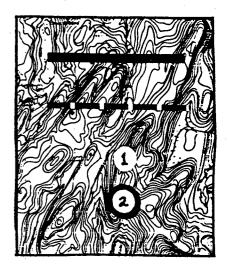
MAP KEY

STANDARD SITE BOUNDARY LINE (sites smaller than 3,200 acres)

MACROSITE BOUNDARY LINE (sites larger than 3,200 acres)

SITE LOCATOR DOT

LOCATOR DOT FOR SITES SMALLER THAN DOT



Natural Heritage PRIORITY SITE MAP 3907541
MILLVILLE GUADRANGLE
NEV HENEY
S SERVITE BEFRES FOREGRAPHE UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY CONTOLS STEERING 10 FEET MILLVILLE, N. J. AND DATE OF A RESIDENCE OF THE STATE OF THE PROPERTY OF THE PARTY OF T

NATURAL HERITAGE PRIORITY SITES QUADRANGLE MAP KEY

SITE LOCATOR NUMBER SITECODE

SITENAME

QUADNAME*** MILLVILLE

(2)

S.USNJHP1*457

REICK AVENUE SITE

(I)

S.USNJHP1*495

SHERMANS AVENUE SITE

Site Basic Record Code Explanations

BIODIVERSITY SIGNIFICANCE

91/01/15

A rating that describes the significance of the site in terms of its biological diversity.

- B1 Outstanding significance, generally of a "last of the least" type, such as only known occurrence of any element (species or natural community), the best or an excellent (A-ranked) occurrence of a G1 element, or a concentration (4+) of high-ranked (A or B ranked) occurrences of G1 or G2 elements. Site should be viable and defensible for elements and ecological processes contained.
- B2 Very high significance, such as the most outstanding occurrence of any community element (regardless of its element rank). Also includes areas containing any other (B, C, D ranked) occurrence of a G1 element, a good (A or B ranked) occurrence of a G2 element, an excellent (A ranked) occurrence of a G3 element, or a concentration (4+) of B ranked G3 or C ranked G2 elements.
- B3 High significance, such as any other (C or D ranked) occurrence of a G2 element, a B ranked occurrence of a G3 element, an A ranked occurrence of any community, or a concentration (4+) of A or B ranked occurrences of (G4 or G5) S1 elements.
- B4 Moderate significance, such as a C-ranked occurrence of a G3 element, a B ranked occurrence of any community, an A or B ranked or only state (but at least C ranked) occurrence of a (G4 or G5) S1 element, an A ranked occurrence of an S2 element, or a concentration (4+) of good (B ranked) S2 or excellent (A ranked) S3 elements.
 - B5 Of general biodiversity interest or open space.

Site Report SHERMANS AVENUE SITE

Identifiers:

SITECODE:

S.USNJHP1 * 495

SITENAME:

SHERMANS AVENUE SITE

Location:

COUNTYNAME:

QUADNAME:

Cumberland

MILLVILLE

MUNICIPALITY: VINELAND CITY

MILLVILLE CITY DEERFIELD TWP.

Site Description/Design:

DESCRIPTION: Atlantic white cedar swamp grading into Acer rubrum swamp.

BOUNDARY

JUSTIFICATION: Boundaries drawn to include wetland habitat from the northern shore of Union Lake to the

extent of where species have been documented to occur north of Sherman Avenue. Site boundaries follow existing roads and trails and include a small amount of upland buffer.

The northern boundary is formed by a powerline right-of-way.

Site Significance:

BIODIVERSITY .

SIGNIFICANCE: B3

COMMENTS:

Two globally rare State endangered plant species and one special concern plant species

have been documented from the site.

Species and Natural Communities on Site:

NAME	COMMON NAME	FEDERAL	STATE	REGION.	GRANK:	SRANK:	DATE OBSERVED	
		STATUS:	STATUS:	STATUS:		OKAIR.	DATE ODSERVED	
ARETHUSA BULBOSA	DRAGON MOUTH				G4	s2	1988-05-29	
CROTALUS HORRIDUS	TIMBER RATTLESNAKE		E		G5	S2	1967-SUMMR	
ELEOCHARIS TORTILIS	TWISTED SPIKERUSH	•	E		G5	SH	1923-08-12	
HELONIAS BULLATA	SWAMP-PINK	LT	Ε	LP	G3	s3	1988-05-29	
JUNCUS CAESARIENSIS	NEW JERSEY RUSH	C2	Ε	LP	G2	\$2	1985-07-??	
SCHIZAEA PUSILLA	CURLY GRASS FERN	3C		LP	G3	S3	1923-08-12	



NATURAL LANDS MANAGEMENT

NATURAL HERITAGE INDEX MAPS

The Natural Heritage Database contains several thousand records of individual occurrences of endangered and threatened species and ecosystems. Many of these occurrences either have not been documented in recent years or have not had habitat boundaries delineated. Because much work remains to be done to delineate habitat boundaries and determine current status for these occurrences, Natural Heritage Index Maps were devised to red flag general areas in which the occurrences are located. The index maps are meant to be used as a tool to point to areas which may be of significance for endangered biological diversity. These maps do not depict all endangered species habitat in the State, but merely general areas which contain documented occurrences. Many additional areas may contain unidentified or poorly documented occurrences.

The maps have been produced using a computer generated grid which shades a grid cell approximately 330 acres in size if an endangered or threatened species or ecosystem has been documented anywhere within the cell. To use these maps, we suggest that you first find the location to be checked on the quad maps and then refer to the same grid location of the Natural Heritage Index Maps. The Natural Heritage Program can be contacted for additional information as specific projects are planned.

NATURAL HERITAGE DATA

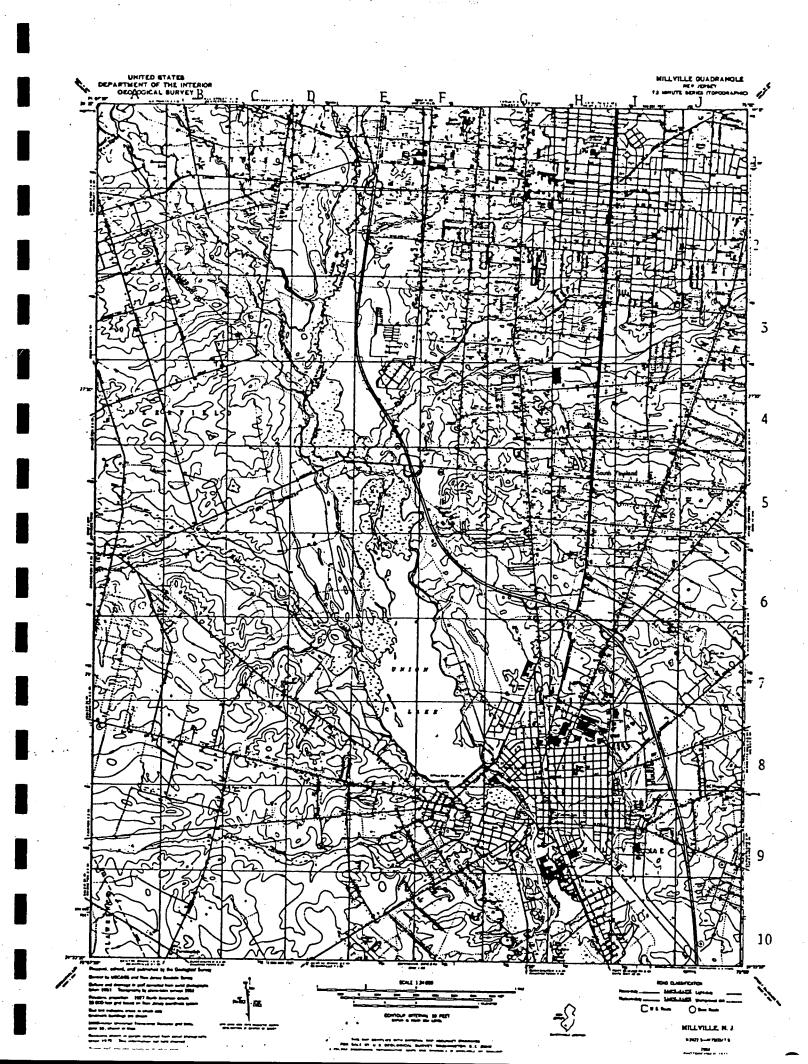
GENERALIZED LOCATIONS FOR RARE & ENDANGERED ELEMENTS OF NATURAL DIVERSITY

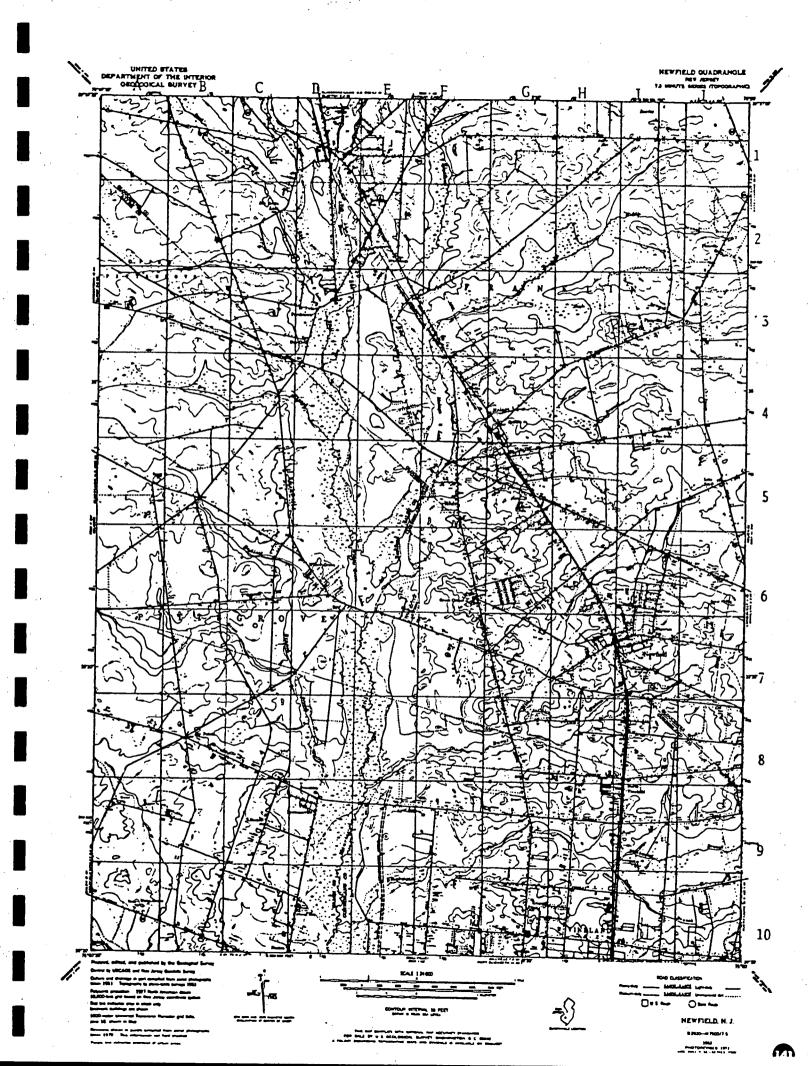
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MAY 1988

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NATURAL HERITAGE DATA

GENERALIZED LOCATIONS FOR RARE & ENDANGERED ELEMENTS OF NATURAL DIVERSITY

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MAY 1988

UPDATED SEMIARRIALIO

REFERENCE NO. 46



United States Department of the Interior FISH AND WILDLIFE SERVICE

Fish and Wildlife Enhancement 927 North Main Street (Bldg. D1) Pleasantville, New Jersey 08232

> Tel: 609-646-9310 FAX: 609-646-0352

> > August 14, 1992

Corry T. Platt
Halliburton NUS
120 Wood Avenue South
Suite 610
Iselin, New Jersey 08830

Dear Mr. Platt:

This letter responds to your July 14, 1992, request to the U.S. Fish and Wildlife Service (Service) for information on the presence of endangered and threatened species and "sensitive environments" within the study area of a potential hazardous waste site located in Vineland, Cumberland County, New Jersey. The study area includes a 0.5 mile radius surrounding the site and areas contiguous with the surface waters along a 15-mile-long route downstream of the site. The Service can provide you with information concerning federally listed or proposed threatened and endangered species, and sensitive environments of concern to the Service, but must refer you to the New Jersey Department of Environmental Protection and Energy for State listed species and sensitive environments of State concern.

This response is provided pursuant to the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) to ensure the protection of endangered and threatened species and is intended to assist your assessments, investigations, and planning being conducted pursuant to Section 104(a) of the Comprehensive Environmental Response, Compensation and Liability Act (P.L. 96-510 94 Stat. 2767) as amended by the Superfund Amendments and Reauthorization Act (42 U.S.C. 9601 et seq.). These comments do not represent any position the U.S. Department of the Interior may adopt concerning possible injury to natural resources under the Department's trusteeship.

Listed and Candidate Species

Enclosed are current summaries of federally listed and candidate species in New Jersey for your information. According to our records, there is a known occurrence of the federally listed threatened plant species, swamp pink (Helonias bullata), in the wetlands adjacent to the Maurice River within the project study area. This species typically occurs in palustrine forested wetlands and occasionally in palustrine scrub/shrub wetlands. Threats to

swamp pink include direct loss of its wetland habitat due to filling or draining, and degradation of its habitat due to sedimentation, erosion, disruption of groundwater hydrology, and adverse impacts to water quality. Many natural areas of New Jersey, including the project study area, have not been thoroughly surveyed for endangered and threatened plant and animal species. Therefore, additional occurrences of swamp pink could occur in suitable habitat within the project area.

The federally listed endangered bald eagle (Haliaeetus leucocephalus) is known to occur along the Maurice River. The Maurice River from Union Lake to the Delaware Bay serves as an important wintering area for this species, as well as a feeding, perching, and roosting area for nearby breeding eagles. Additionally, the peregrine falcon (Falco peregrinus), a federally listed endangered species, may occasionally occur in the project area as a transient.

Federal agency actions that may affect listed species may require formal consultation pursuant to Section 7 of the Endangered Species Act. The burden of proof is on the federal action agency to show a lack of potential effects on listed species in order to avoid further consultation requirements. This may be accomplished through surveys and an analysis of potential effects and alternatives. To assist in determining further consultation requirements, the Service requests that a qualified botanist conduct a vegetative survey of all forested wetlands, which could be directly or indirectly affected by project activities, to determine the absence or presence of swamp pink. The results of the survey, including the survey method used and the qualifications of the surveyor, must be forwarded to this office for review. Additionally, if project activities adjacent to the Maurice River may affect vegetation that provides habitat for the bald eagle, this office must be contacted for further Section 7 consultation.

Candidate species are species under consideration by the Service for possible inclusion on the List of Endangered and Threatened Wildlife and Plants. Although these species receive no substantive or procedural protection under the Endangered Species Act, the Service encourages federal agencies and other planners to consider candidate species in the project planning process. The State's Natural Heritage Program (NHP) provides the most up-to-date data source for candidate species in New Jersey, as well as maintaining information on State listed species. The NHP may be contacted at the following address:

Mr. Thomas Breden
Natural Heritage Program
Division of Parks and Forestry
CN 404
Trenton, New Jersey 08625
(609/984-0097)

Should the NHP data search reveal the presence of any candidate species on the project area, the Service must be contacted to ensure that these species are not adversely affected by project activities.

Further information on State listed wildlife species may be obtained from the following office:

Ms. Johnn Frier-Murza
Endangered and Nongame Species Program
Division of Fish, Game and Wildlife
CN 400
Trenton, New Jersey 08625
(609/292-9101)

Sensitive Environments

According to the Service's National Wetland Inventory maps (Newfield and Millville, New Jersey quadrangles) there are a substantial number of wetlands present within the project area. Wetlands provide habitat for a variety of migratory and resident species of fish and wildlife. Thus, the Service discourages activities in and affecting the Nation's wetlands that would unnecessarily damage, degrade, or destroy the habitat values of these areas.

The Union Lake Wildlife Management Area is within the project area west of the Maurice River. This State owned property has been designated as a "Wetland of International Importance" by the Convention on Wetlands of International Importance, also known as the Ramsar Convention. This Convention is an intergovernmental treaty between approximately 70 nations that provides the foundation for international cooperation for the conservation of wetland habitat. The broad objectives of the Convention are to stem the loss of wetlands and to ensure their conservation. The New Jersey Division of Fish, Game, and Wildlife should be contacted at the following address in order to assist you in identifying any concerns the State may have regarding potential impacts on this internationally recognized wetland area:

Division of Fish, Game & Wildlife Bureau of Wildlife Management CN 400 501 East State Street Trenton, New Jersey 08625-0400 (609/292-6685)

The Maurice River is being considered for inclusion into the National Wild and Scenic River System. The National Park Service should be contacted at the following address for information on this designation:

National Park Service Mid-Atlantic Region 143 South Third Street Philadelphia, Pennsylvania 19106 (215/597-7018) Information contained in this letter and additional information obtained from the aforementioned sources represents the public interest for fish and wildlife resources and should warrant full consideration in the project planning process. The Service requests that no part of this letter be taken out of context and if reproduced, the letter should appear in its entirety.

Please contact Dana Peters of my staff if you have any questions or require further assistance regarding threatened or endangered species.

Sincerely

Clifford G. Day Supervisor

Enclosures

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN NEW JERSEY

An ENDANGERED SPECIES is any species that is in danger of extinction throughout all or a significant portion of its range.

A THREATENED SPECIES is any species that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.

FISHES

	FISHES	
Sturgeon, shortnose*	Acipenser brevirostrum	E
	REPTILES	
•	KBI 11DBS	
Turtle, Atl. Ridley* Turtle, green* Turtle, hawksbill* Turtle, leatherback* Turtle, loggerhead*	Lepidochelys kempii Chelonia mydas Eretmochelys imbricata Dermochelys coriacea Caretta caretta	E T E T
	BIRDS	
Eagle, bald Falcon, Am. peregrine Falcon, Arctic peregrine Plover, piping Tern, roseate	Haliaeetus leucocephalus Falco peregrinus anatum Falco peregrinus tundrius Charadrius melodus Sterna dougallii dougallii	E E T T
	MAMMALS	
Bat, Indiana Cougar, eastern Whale, blue* Whale, finback* Whale, humpback* Whale, right* Whale, sei*	Myotis sodalis Felis concolor couguar Balaenoptera musculus Balaenoptera physalus Megaptera novaeangliae Balaena glacialis Balaenoptera borealis	E+ E+ E E
Whale, sperm*	Physeter catodon	E

CANDIDATE SPECIES IN NEW JERSEY

CANDIDATE SPECIES in categories 1 and 2 are species that appear to warrant consideration for addition to the List of Endangered and Threatened Wildlife and Plants. Although these species receive no substantive or procedural protection under the Endangered Species Act, the Service encourages federal agencies and other planners to give consideration to these species in the environmental planning process.

VERTEBRATES								
Turtle, bog Terrapin, northern diamondback Snake, northern pine Duck, harlequin Rail, Black Shrike, migrant loggerhead Warbler, cerulean Bat, eastern small-footed Rabbit, New England cottontail Shrew, long-tailed Shrew, Tuckahoe masked Woodrat, eastern	Clemmys muhlenbergii Malaclemys terrapin terrapin Pituophis melanoleucus melanoleucus Histrionicus histrionicus Laterallus jamaicensis Lanius ludovicianus migrans Dendroica cerulea Myotis subulatus leibii Sylvilagus transitionalis Sorex dispar Sorex cinereus nigriculus Neotoma floridana magister	2 2 2 2 2 2 2 2 2 2 3 2 2 2 2 2 2 2 2 2						
INVERTEBRATES								
Beetle, cobblestone tiger Butterfly, regal fritillary Butterfly, tawny crescent Dragonfly, banded bog skimmer Dragonfly, extra-striped snaketail Moth, Albarufan dagger Moth, Bucholz' dart Moth, Daecke's pyralid Moth, Hebard's noctuid Moth, Lemmer's pinnion Moth, precious underwing Moth, Carter's noctuid Moth, annointed sallow noctuid Skipper, Eastern beardgrass Skipper, grizzled Mussel, brook floater Mussel, green floater Mussel, yellow lamp	Cicindela marginipennis Speyeria idalia Phyciodes batesi Williamsonia lintneri Ophiogomphus anomalus Acronicta albarufa Agrotis bucholzi Crambus daeckeellus Erythroecia hebardi Lithophane lemmeri Catocala pretiosa Spartiniphaga carterae Pyreferra ceromatica Atrytone arogos arogos Pyrgus wyandot Alasmidonta varicosa Lasmigona subviridis Lampsilis cariosa	2 2* 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						